

REMTECH inc.

Huntsville, Alabama

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VOLUME II

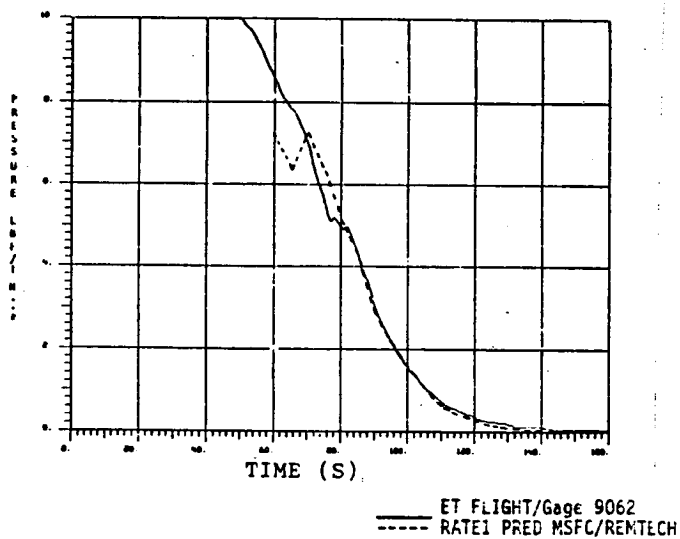
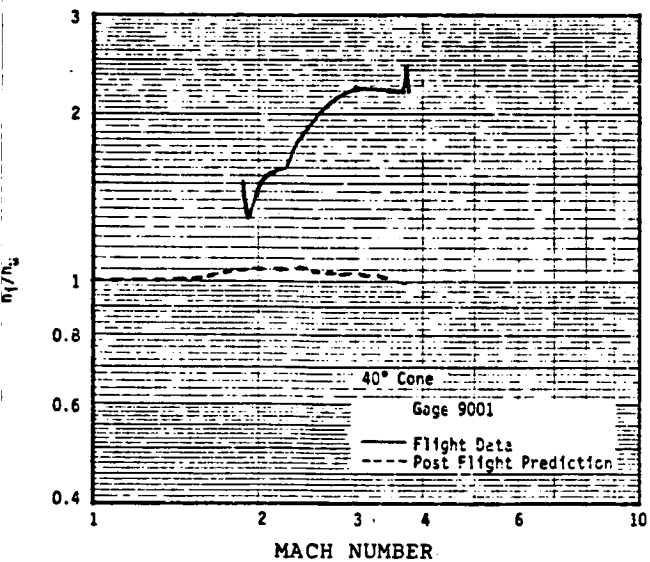
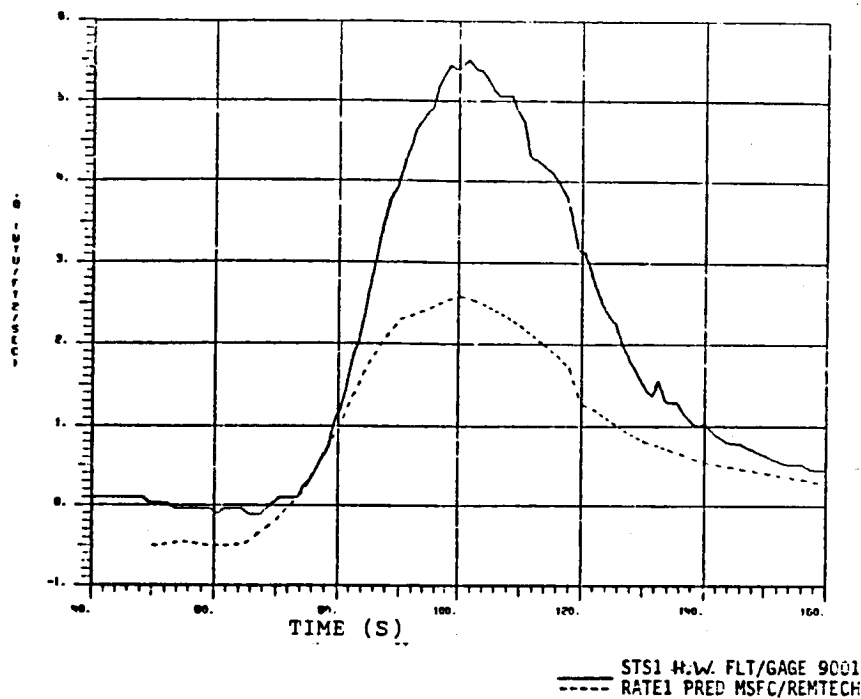
APPENDIX A AEROTHERMAL COMPARISONS

APPENDIX B FLIGHT-DERIVED h_i/h_u vs. M_∞ PLOTS

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APPENDIX A

AEROTHERMAL COMPARISONS



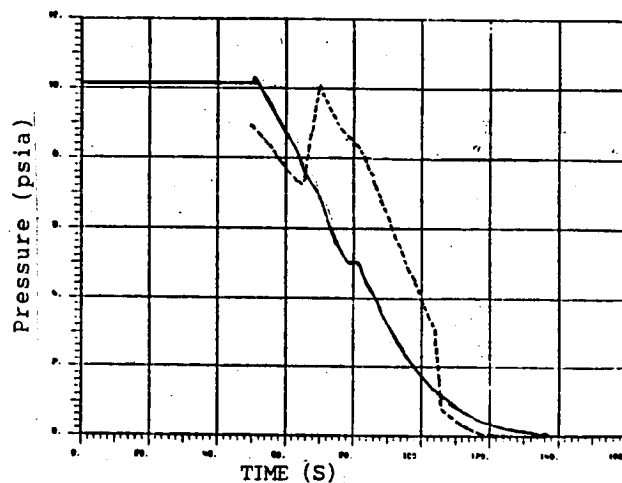
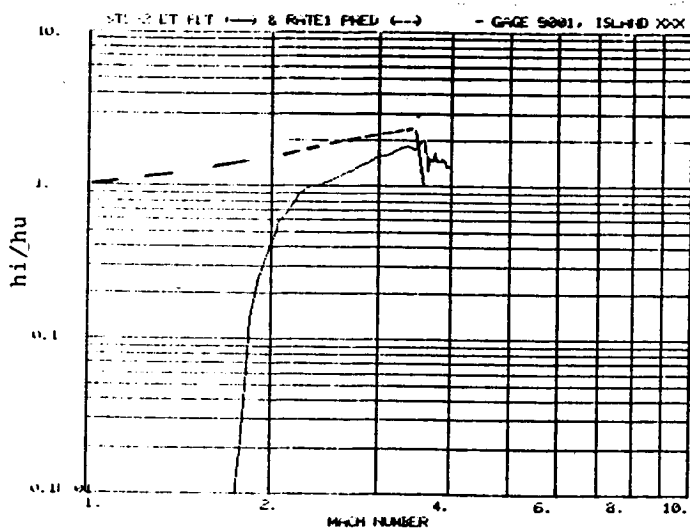
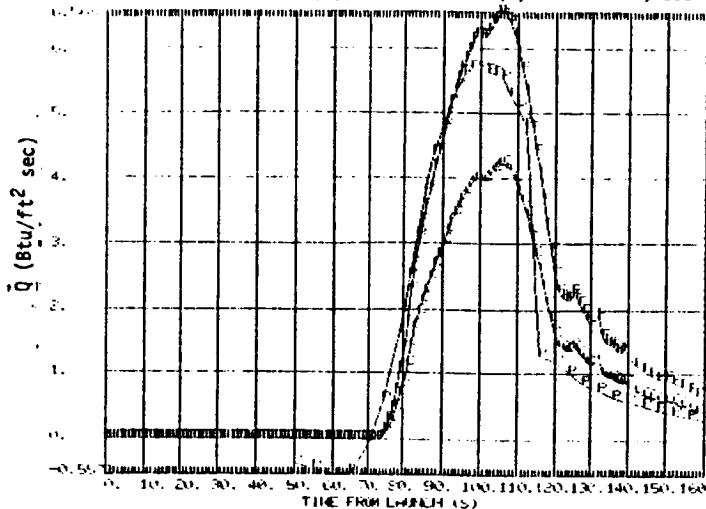
NOTE:

- Thermal Mismatch was Considered

Fig. A.1a Aerothermal Analysis for Gage 9001 in STS-1

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STS-2 ET FLT DATA(F), COR FLT(C), & RATE 1 PRED(P) GAGE 9001, ISLAND XXX

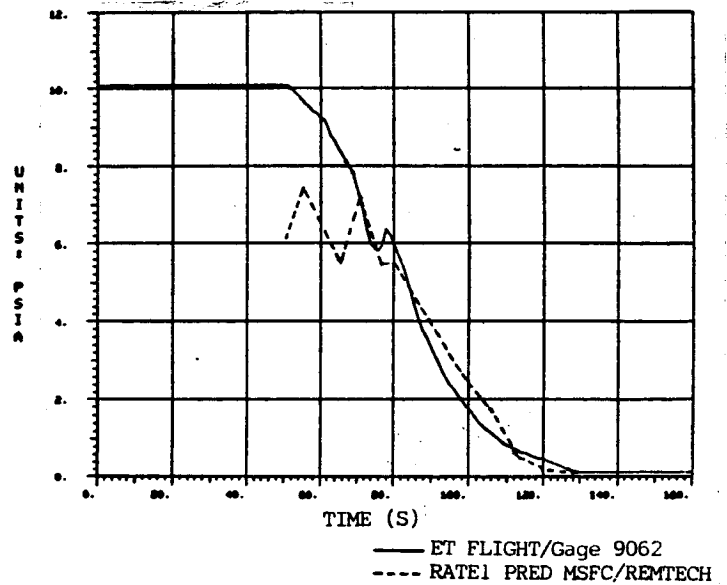
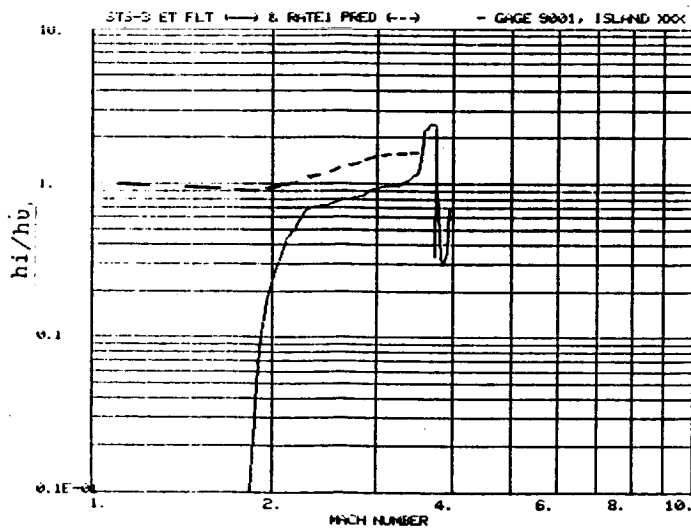
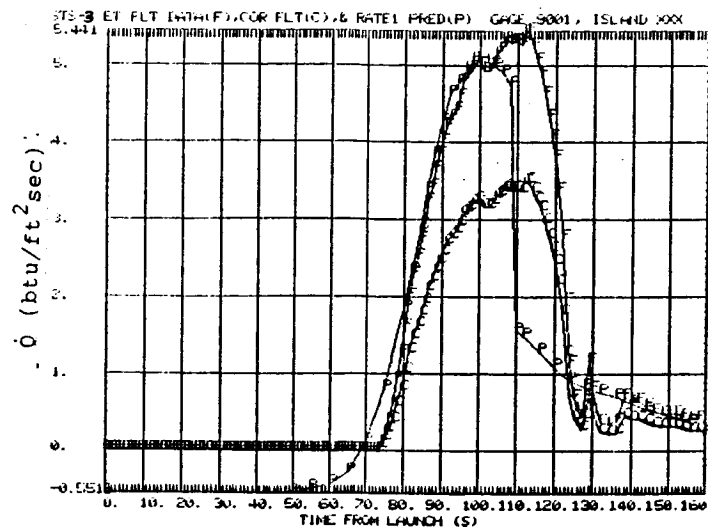


— STS2 FLIGHT/Gage 9062 (9001)
----- Rate1 Pred MSFC/REMTECH

NOTE:

- Thermal Mismatch was Considered

Fig. A.1b Aerothermal Analysis for Gage 9001 in STS-2

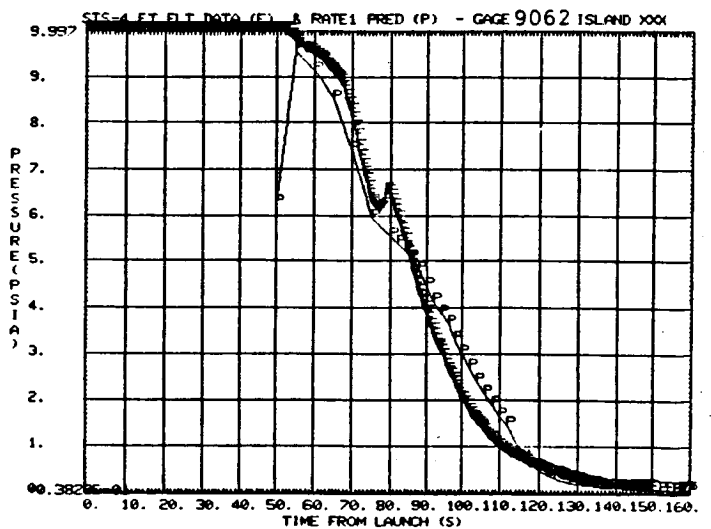
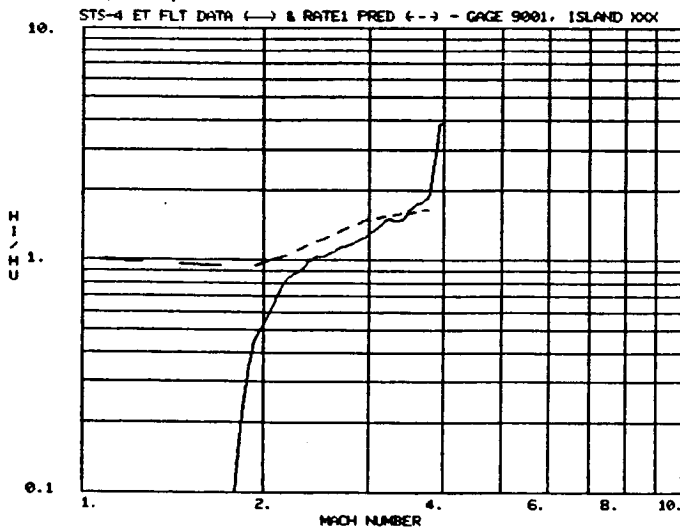
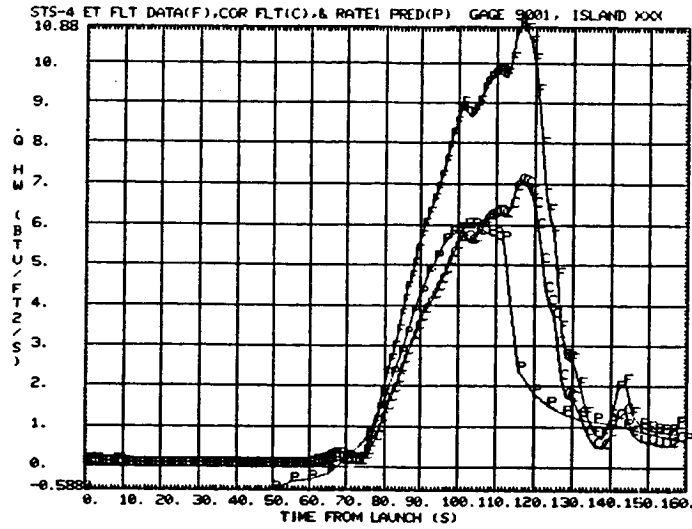


NOTE:

- Thermal Mismatch was Considered

Fig. A.1c Aerothermal Analysis for Gage 9001 in STS-3

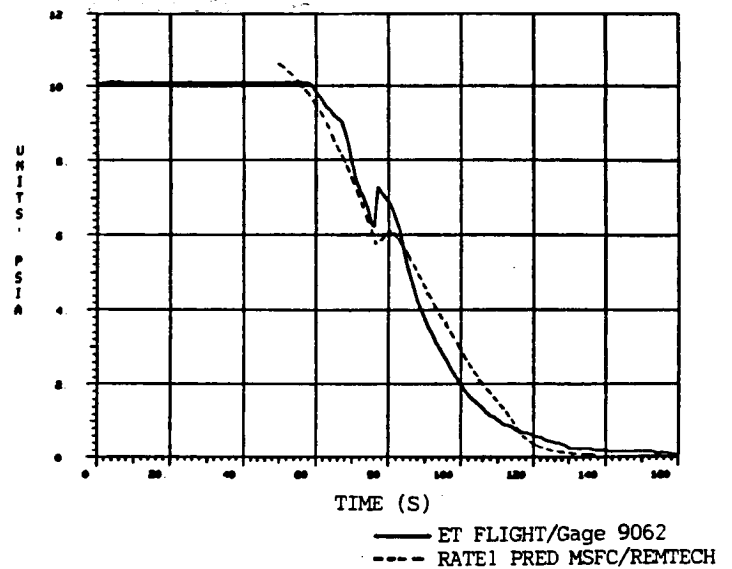
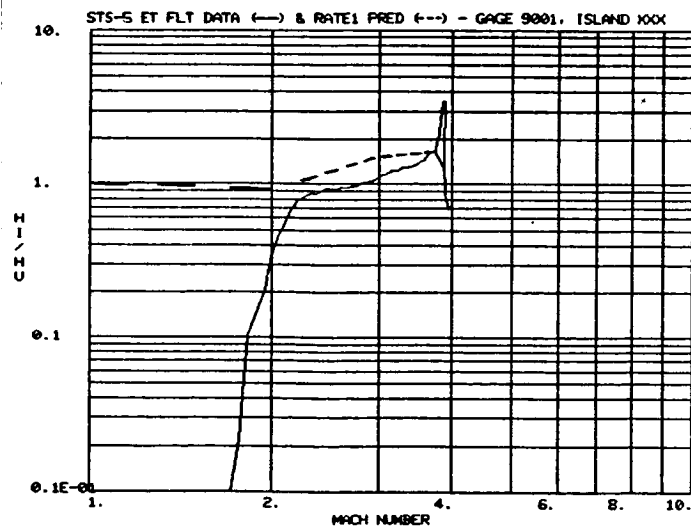
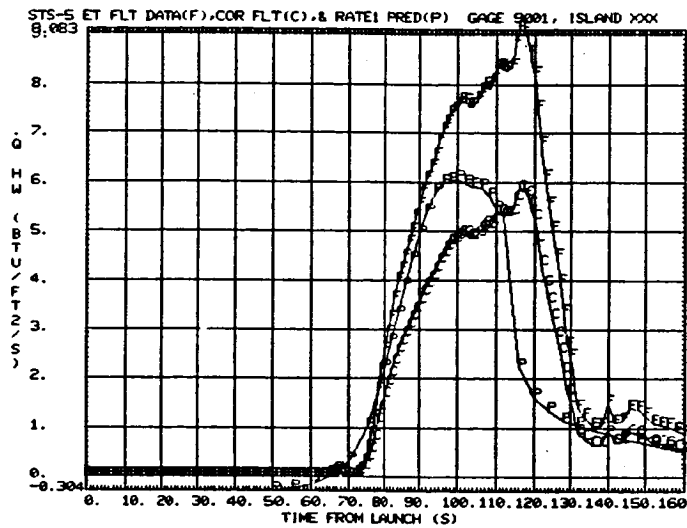
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NOTE:

- Thermal Mismatch was Considered

Fig. A.1d Aerothermal Analysis for Gage 9001 in STS-4

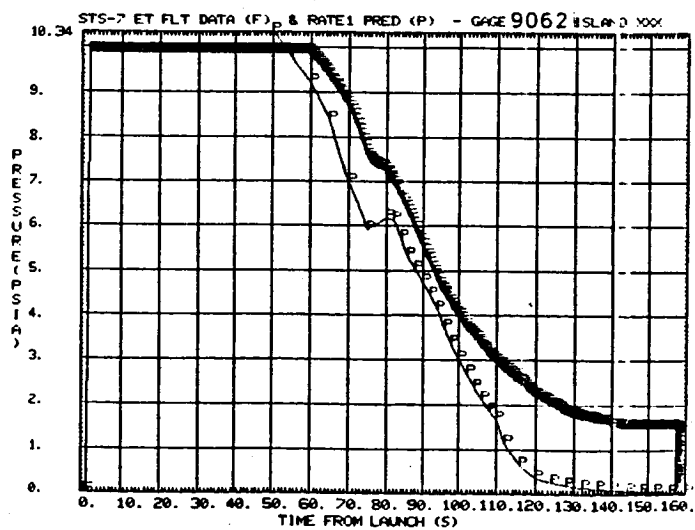
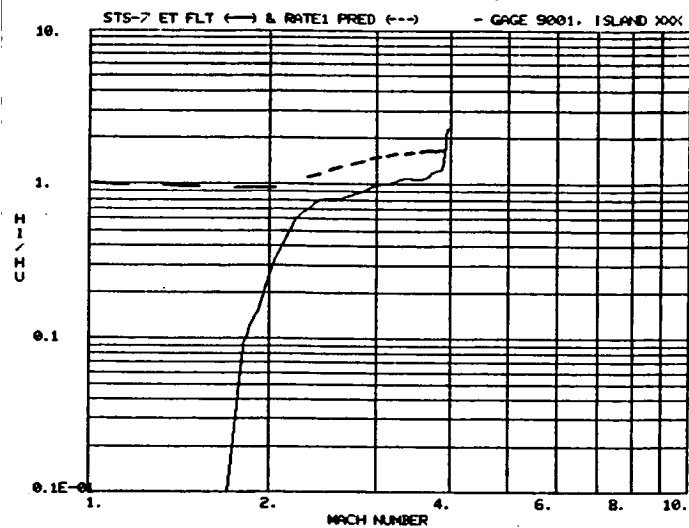
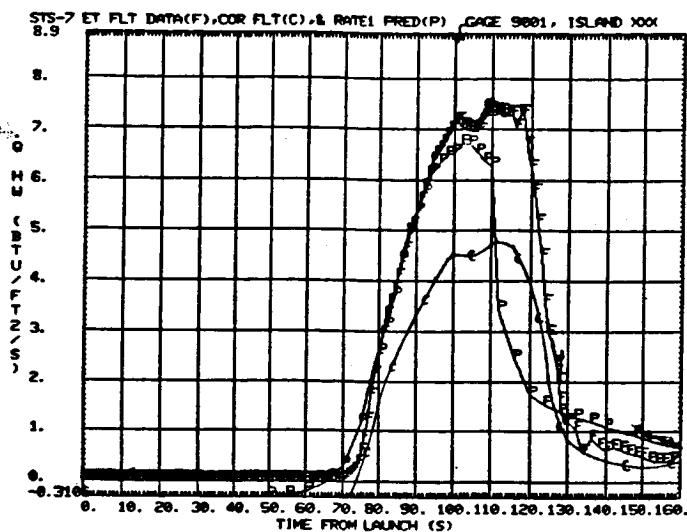


NOTE:

- Thermal Mismatch was Considered

Fig. A.1e Aerothermal Analysis for Gage 9001 in STS-5

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NOTE:

- Thermal Mismatch was Considered
- Bad Pressure Measurements

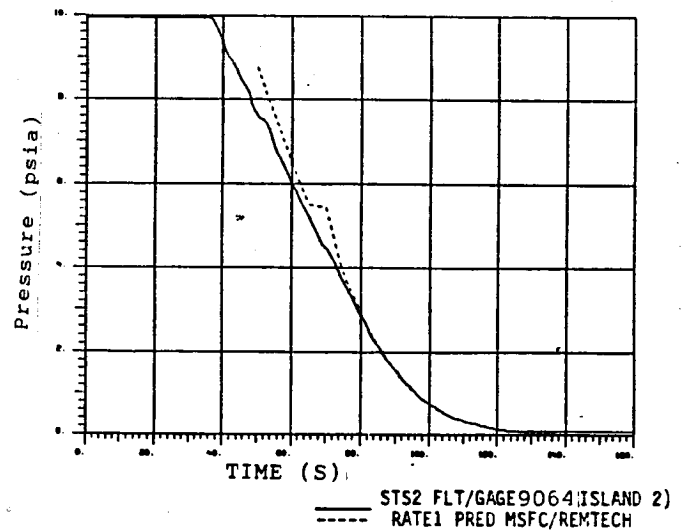
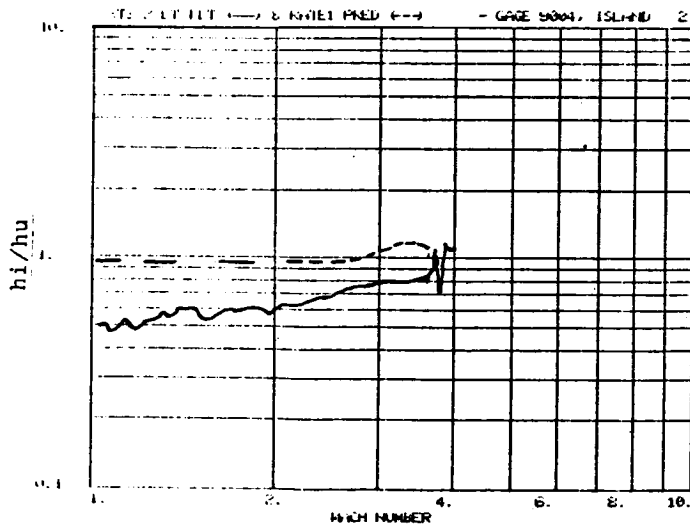
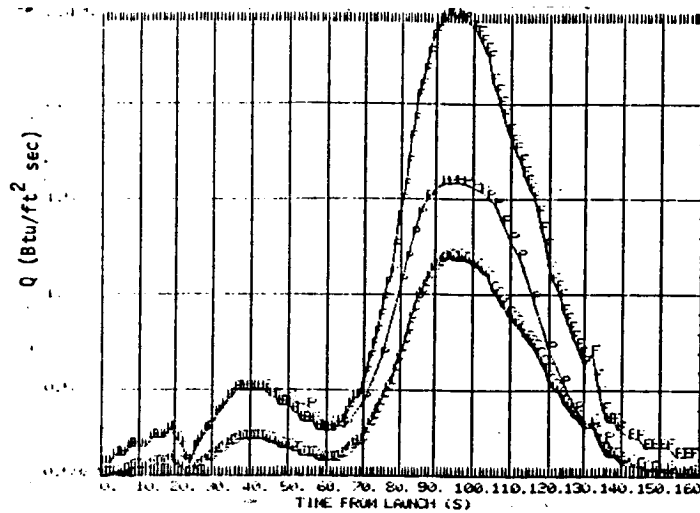
Fig. A.1f Aerothermal Analysis for Gage 9001 in STS-7

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STS2 ET FLT DATA (F), COR FLT(C), & RATE1 PRED(P) GAGE 9004, ISLAND 2

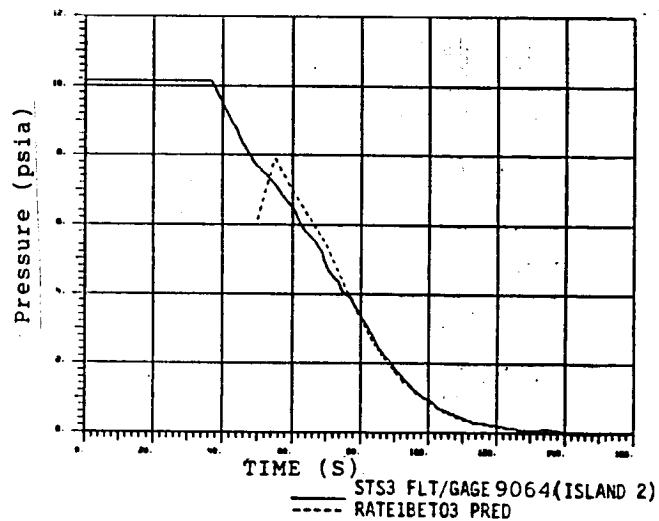
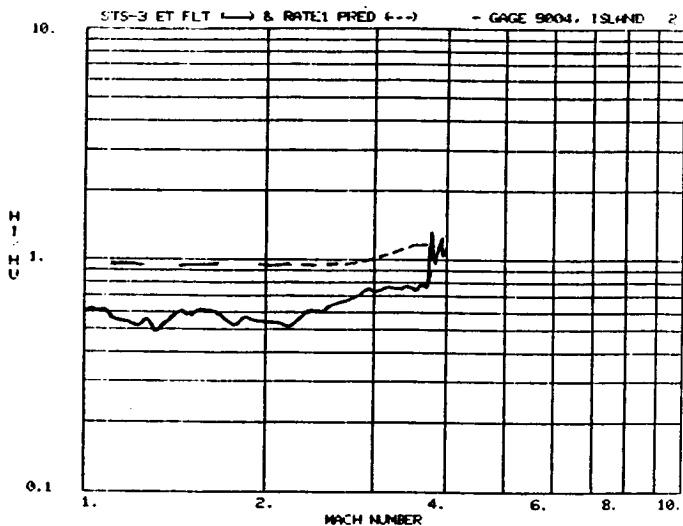
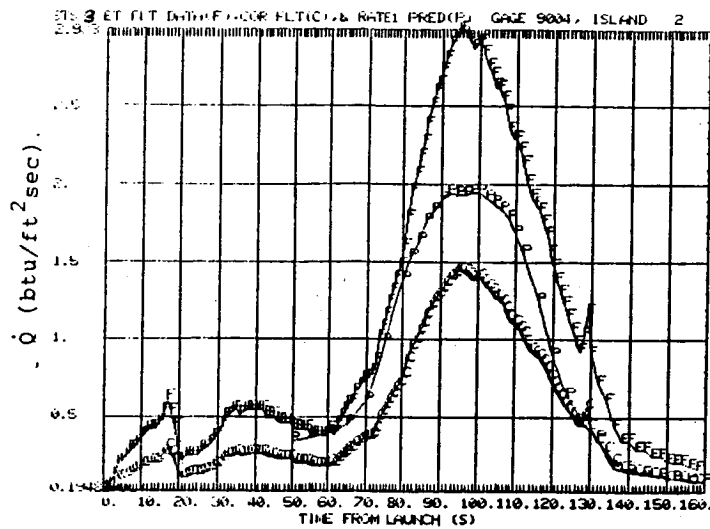


NOTE:

- Thermal Mismatch was Considered

Fig. A.2a Aerothermal Analysis for Gage 9004 in STS-2

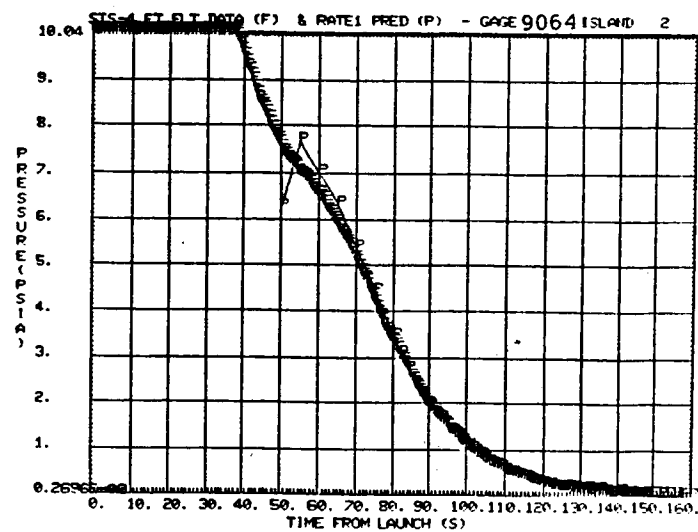
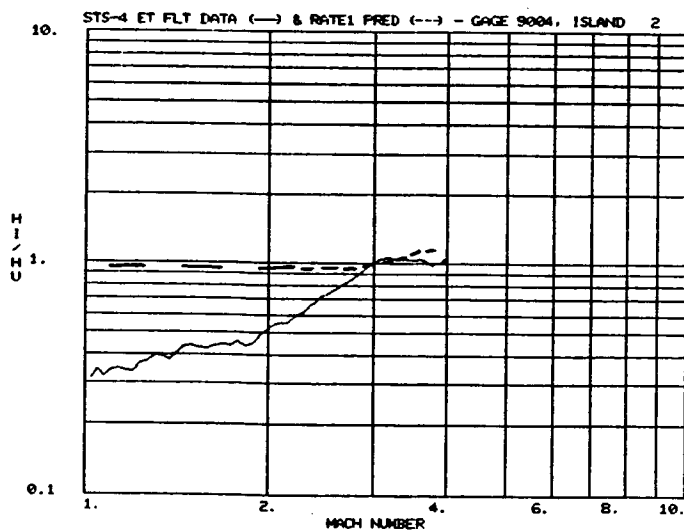
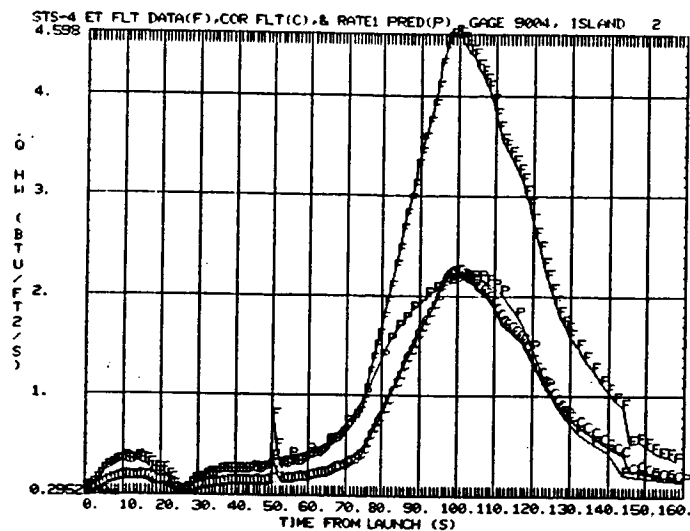
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NOTE:

- Thermal Mismatch was Considered

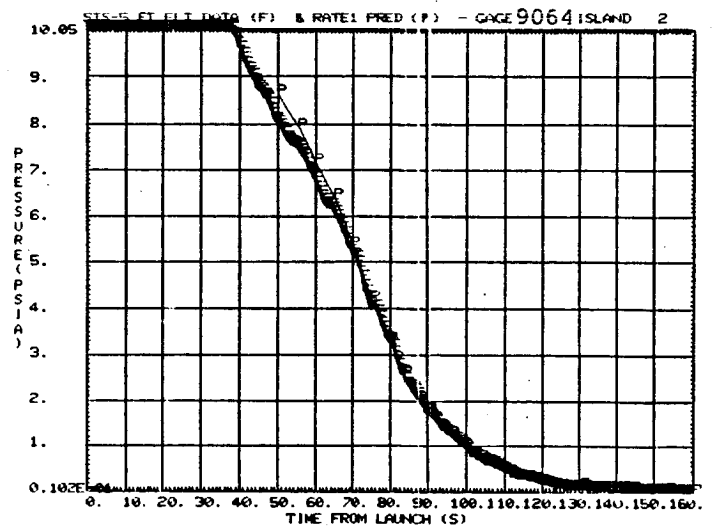
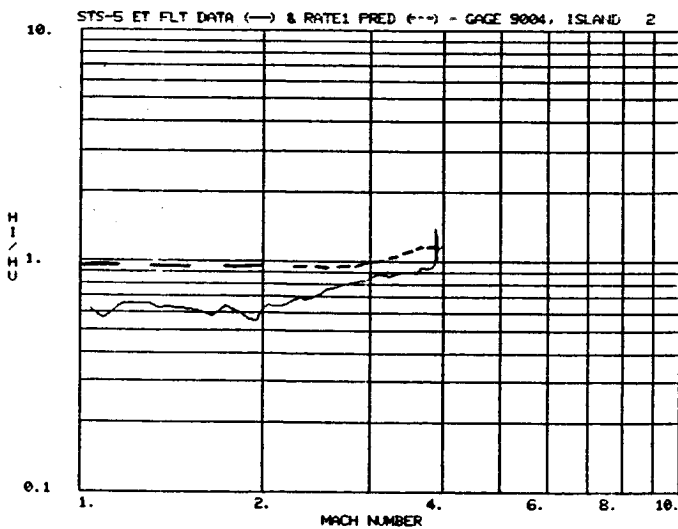
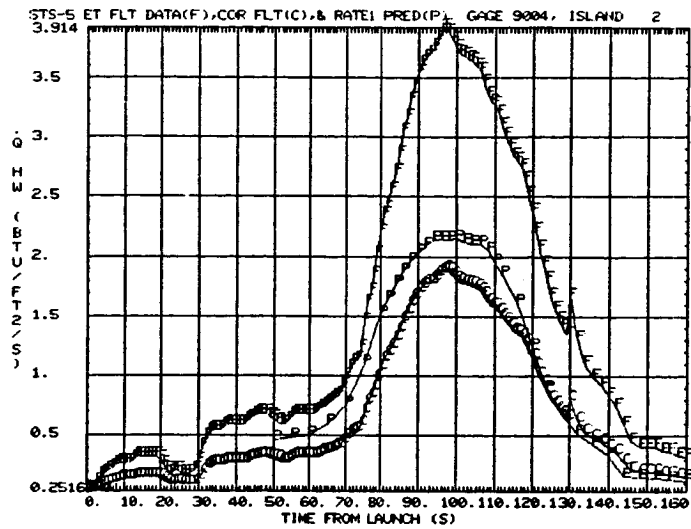
Fig. A.2b Aerothermal Analysis for Gage 9004 in STS-3



NOTE:

- Thermal Mismatch was Considered

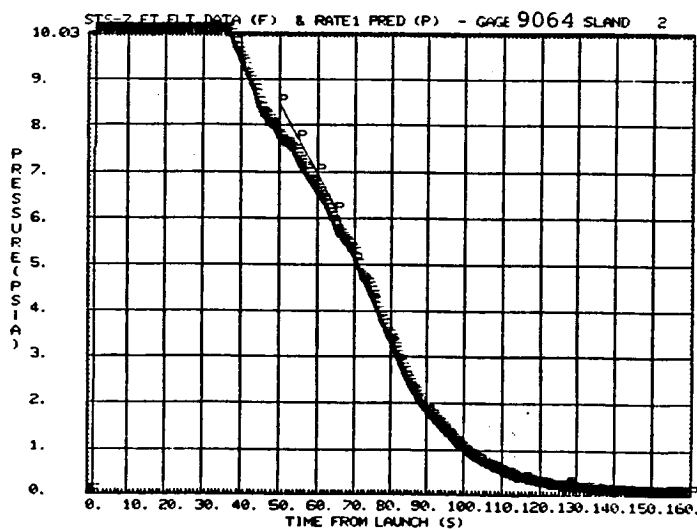
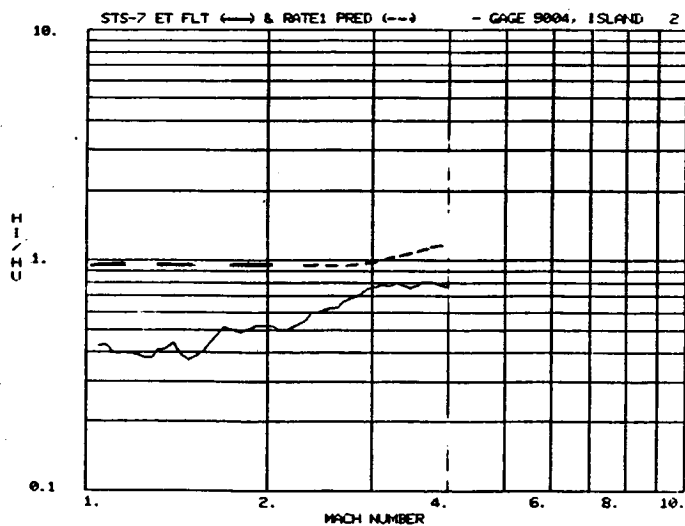
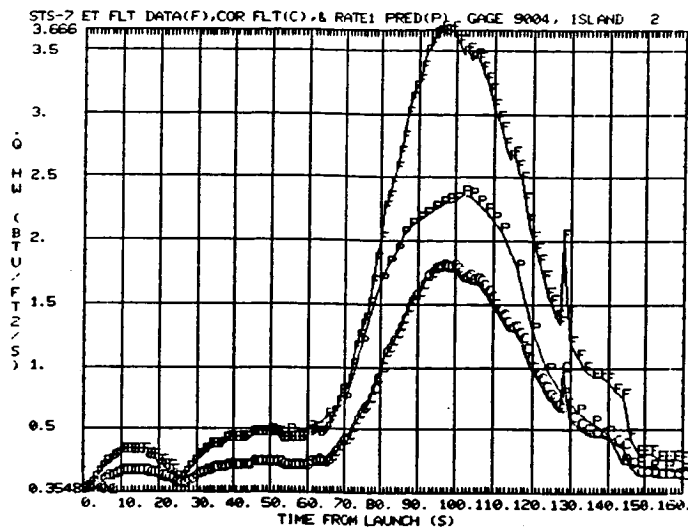
Fig. A.2c Aerothermal Analysis for Gage 9004 in STS-4



NOTE:

- Thermal Mismatch was Considered

Fig. A.2d Aerothermal Analysis for Gage 9004 in STS-5

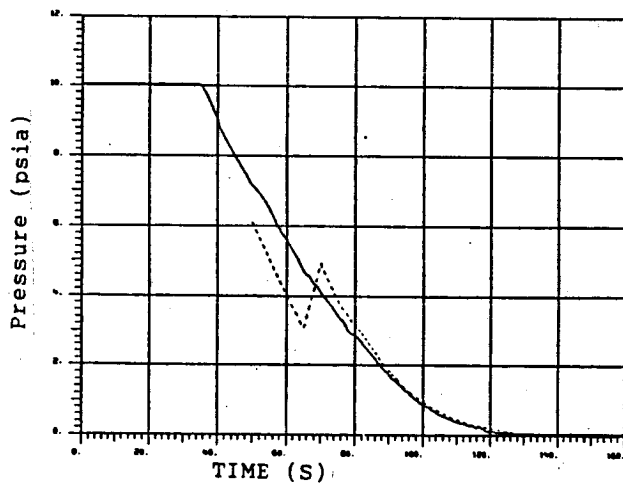
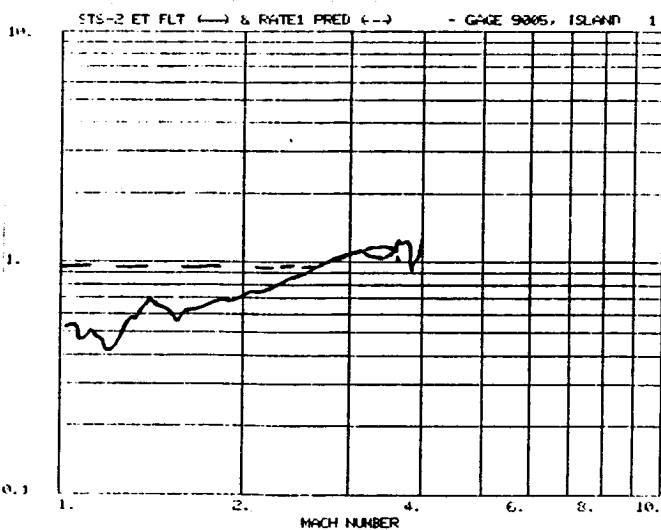
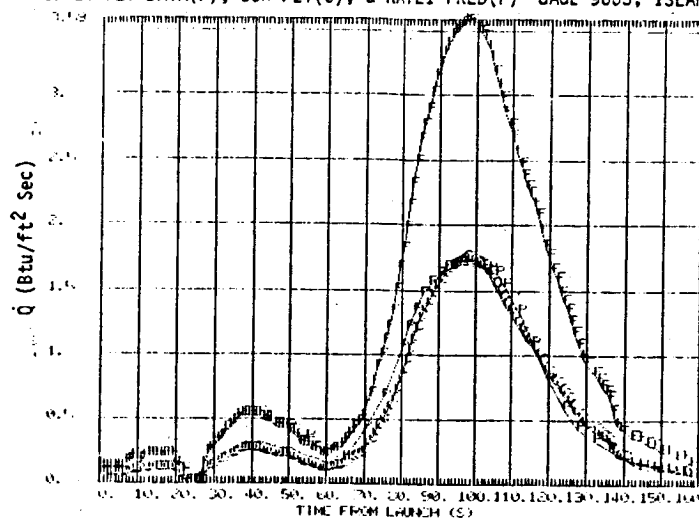


NOTE:

- Thermal Mismatch was Considered

Fig. A.2e Aerothermal Analysis for Gage 9007 in STS-7

STS2 ET FLT DATA(F), COR FLT(C), & RATE1 PRED(P) GAGE 9005, ISLAND 1

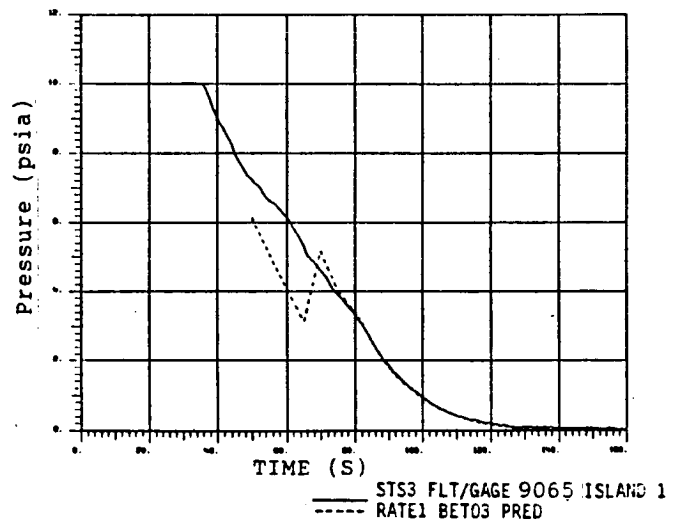
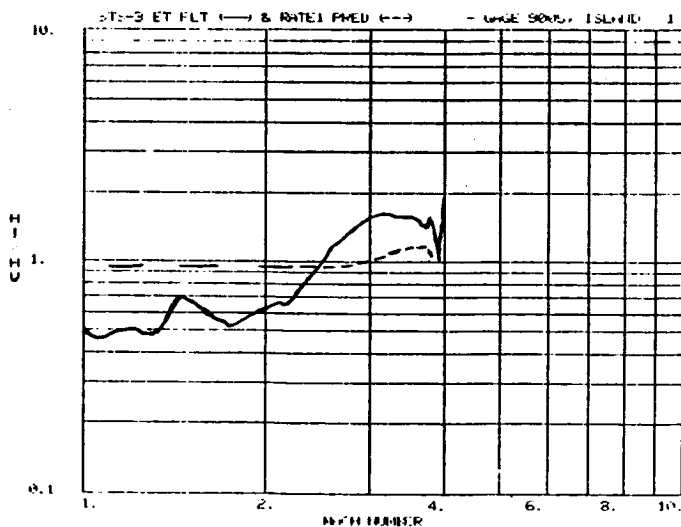
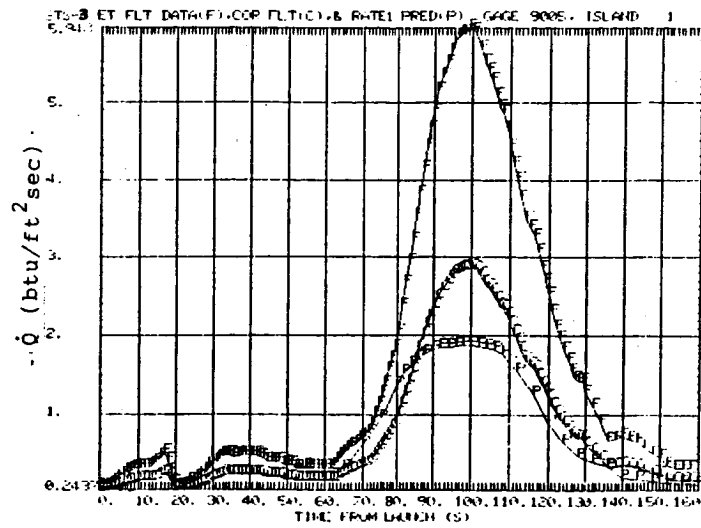


— STS2 FLIGHT/GAGE 9065/ISLAND 1)
- - - - - RATE1 PRED MSFC/REMTECH

NOTE:

- Thermal Mismatch was Considered

Fig. A.3a Aerothermal Analysis for Gage 9005 in STS-2

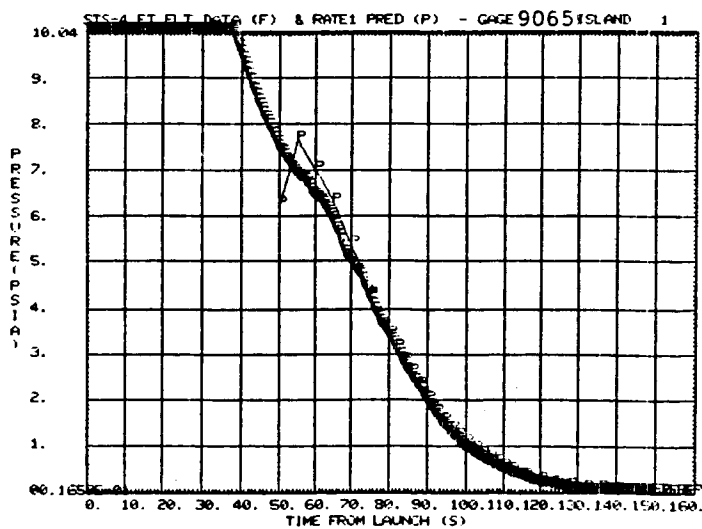
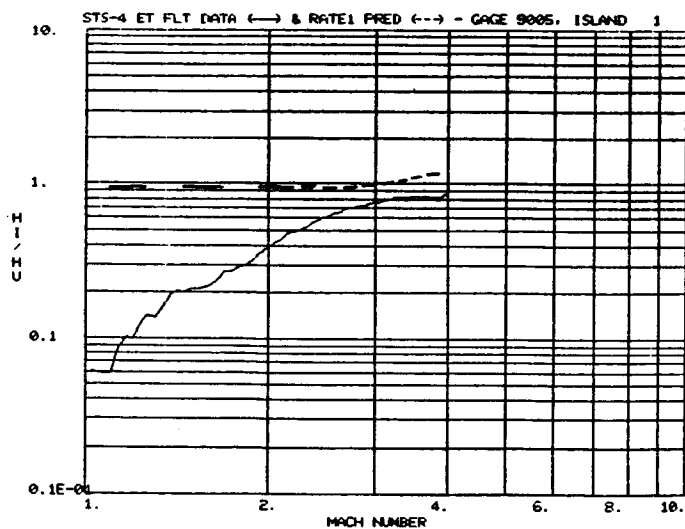
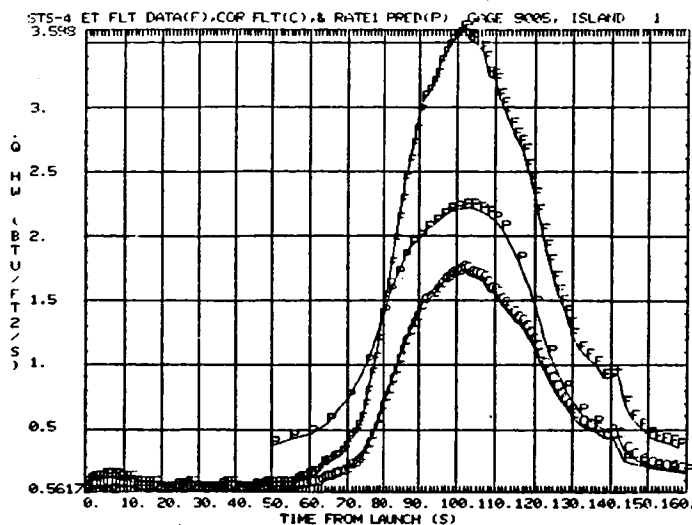


NOTE:

- Thermal Mismatch was Considered

Fig. A.3b Aerothermal Analysis for Gage 9005 in STS-3

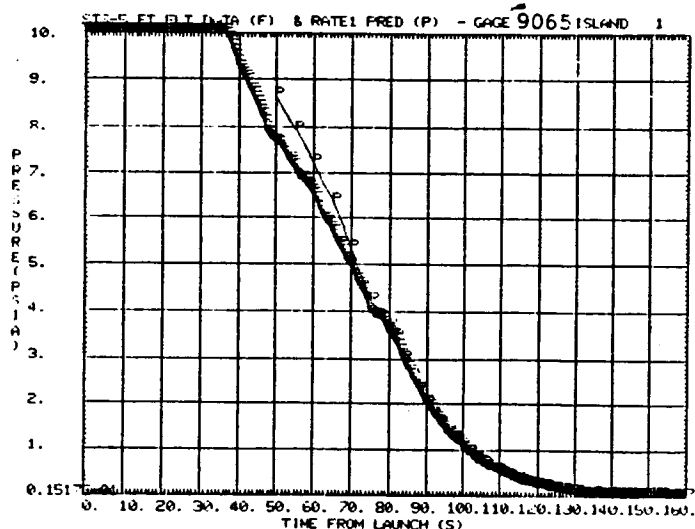
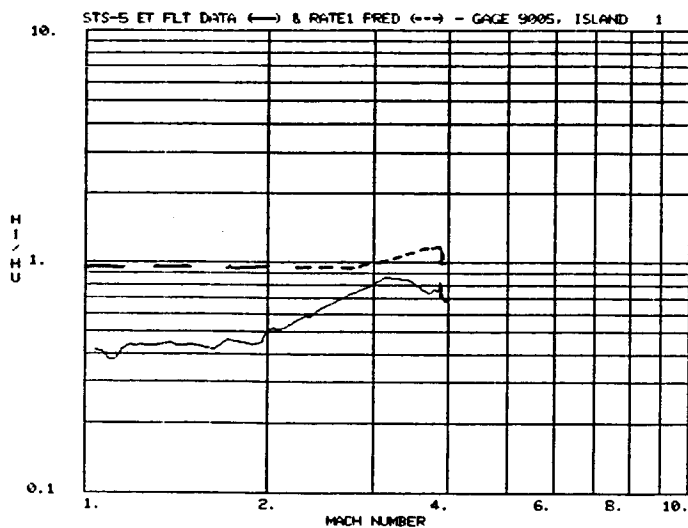
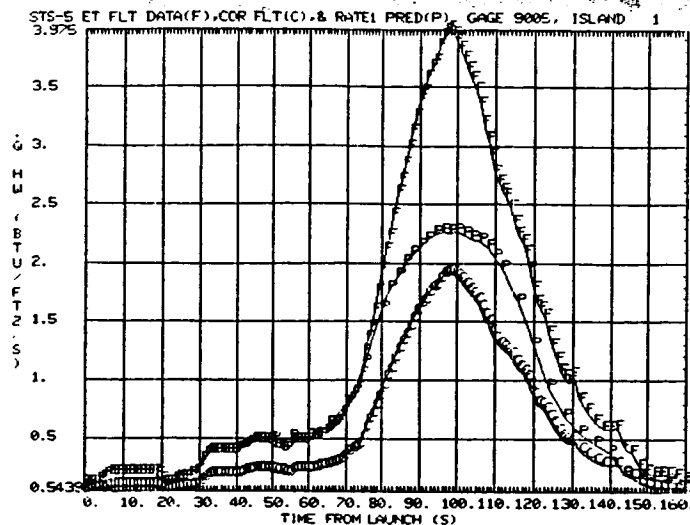
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NOTE:

- Thermal Mismatch was Considered

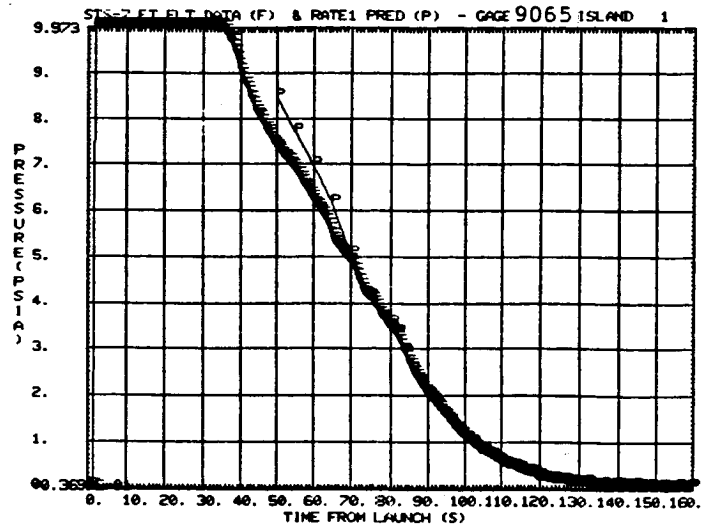
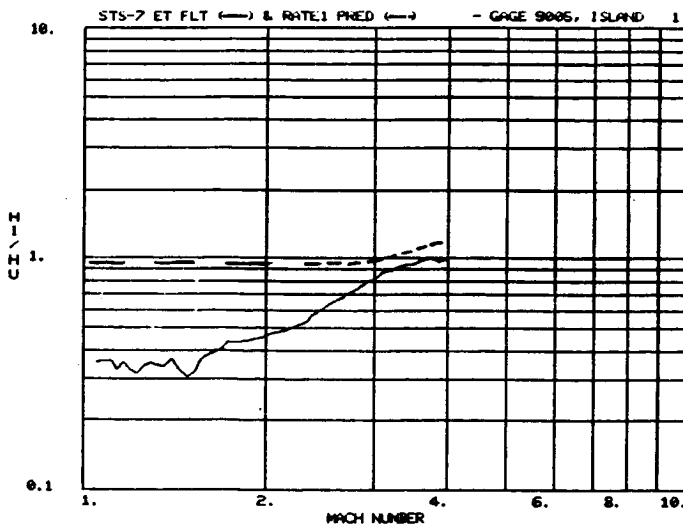
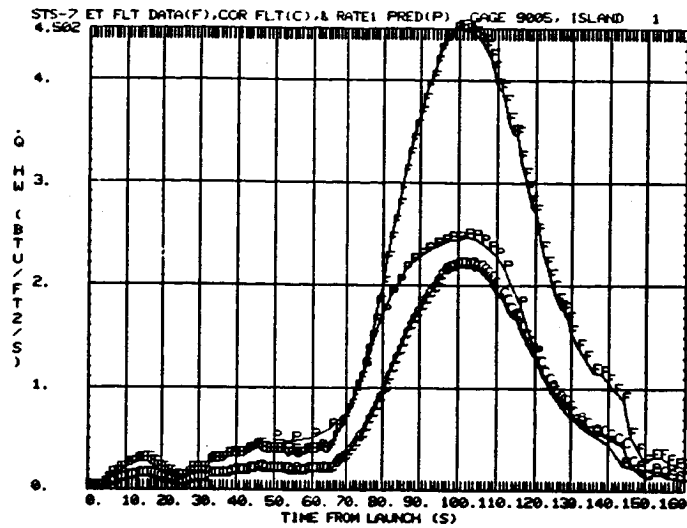
Fig. A.3c Aerothermal Analysis for Gage 9005 in STS-4



NOTE:

- Thermal Mismatch was Considered

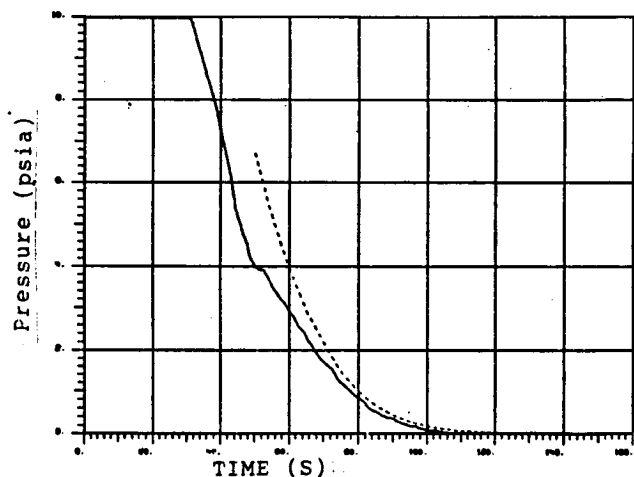
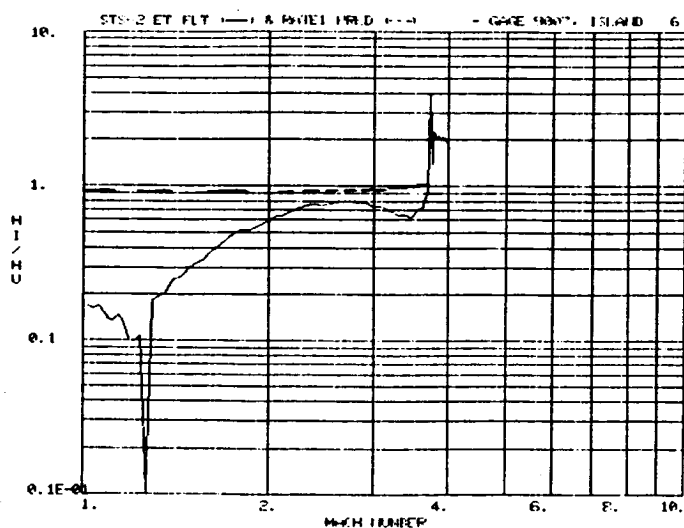
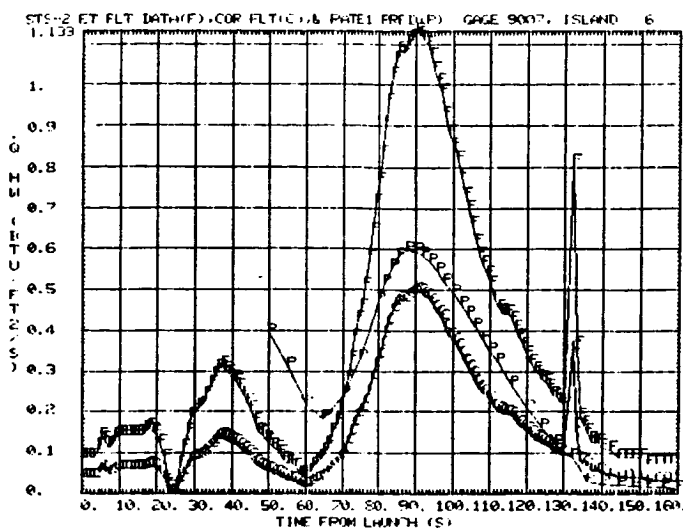
Fig. A.3d Aerothermal Analysis for Gage 9005 in STS-5



NOTE:

- Thermal Mismatch was Considered

Fig. A.3e Aerothermal Analysis for Gage 9005 in STS-7

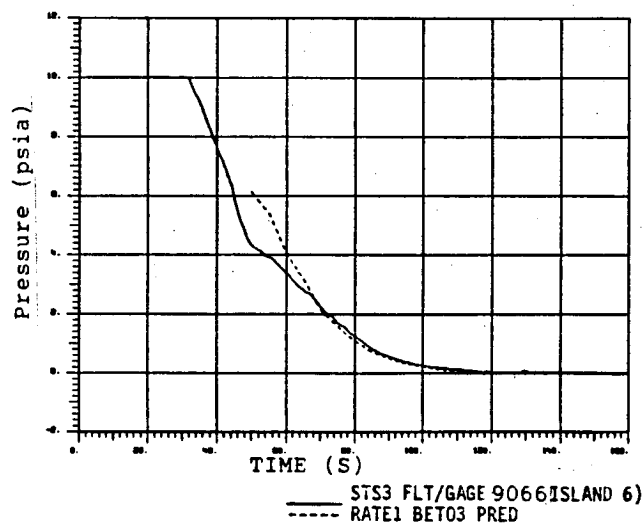
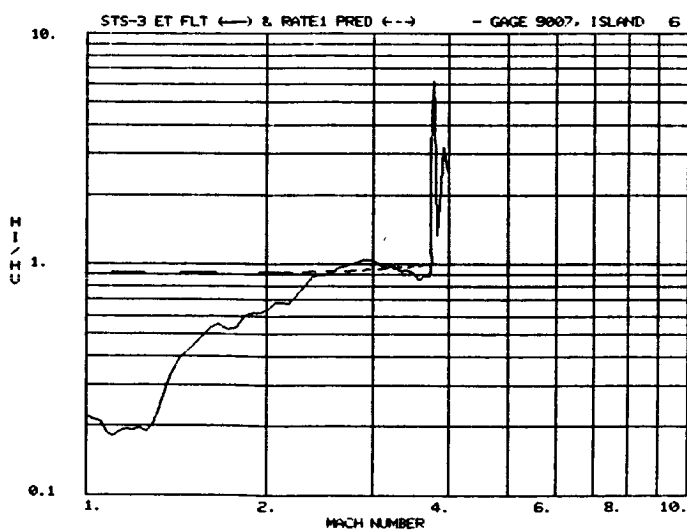
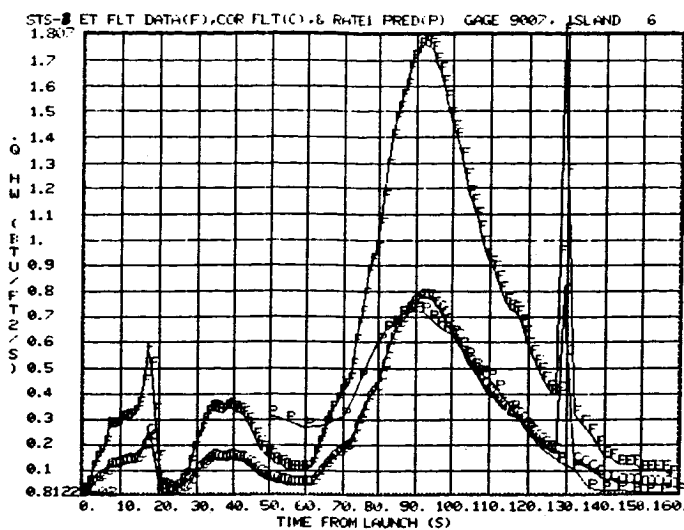


STS2FLIGHT/GAGE 9066/ISLAND 6)
----- RATE1 PRED MSFC/REMTECH

NOTE:

- Thermal Mismatch was Considered

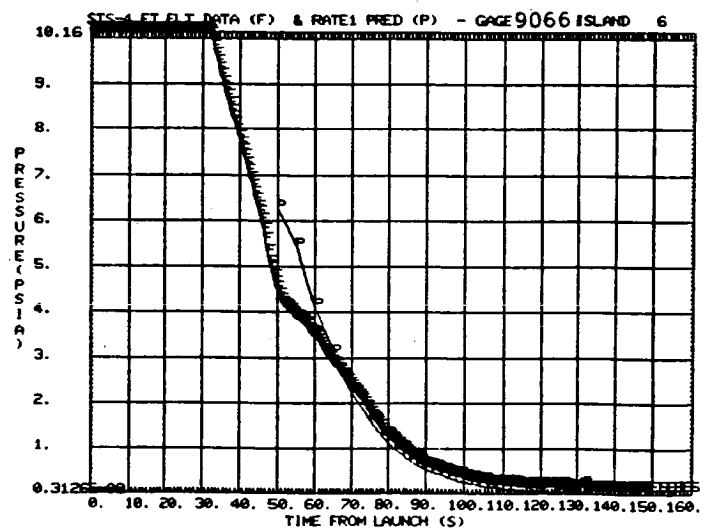
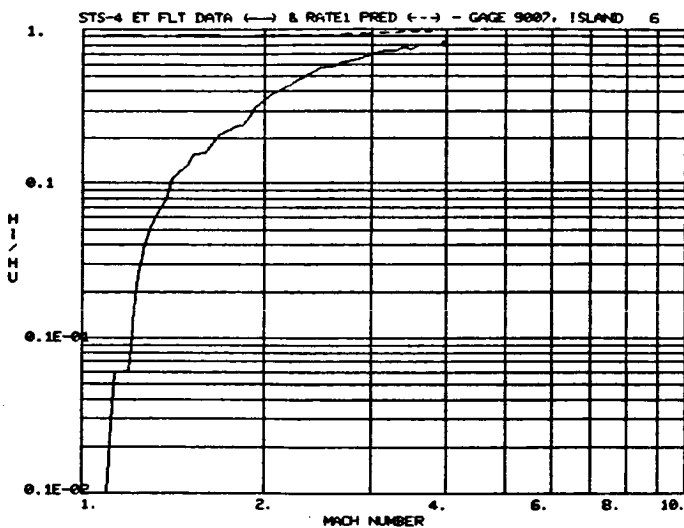
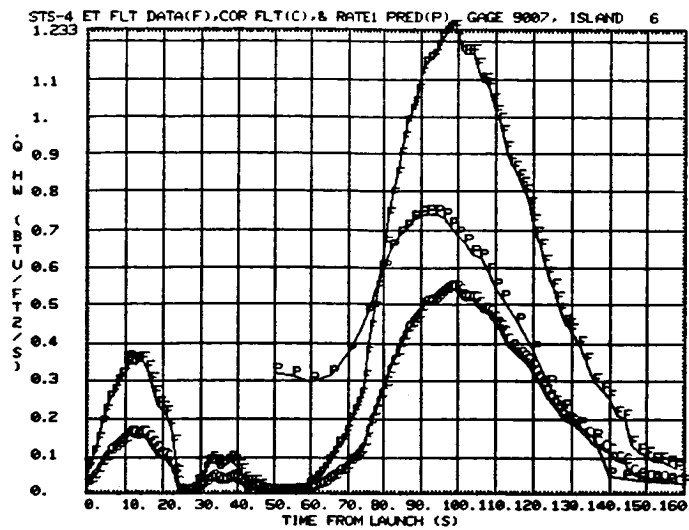
Fig. A.4a Aerothermal Analysis for Gage 9007 in STS-2



NOTE:

- Thermal Mismatch was Considered

Fig. A.4b Aerothermal Analysis for Gage 9007 in STS-3

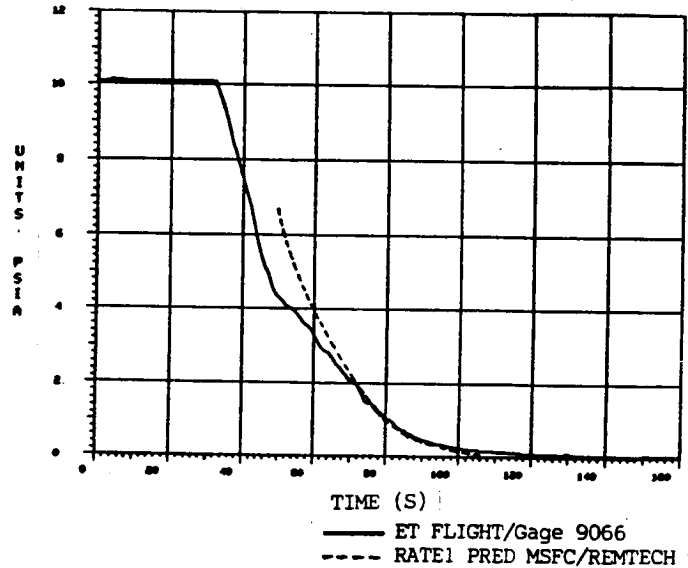
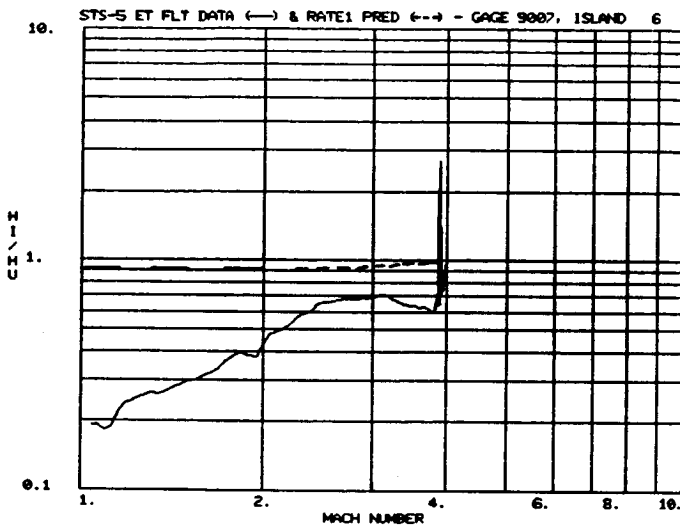
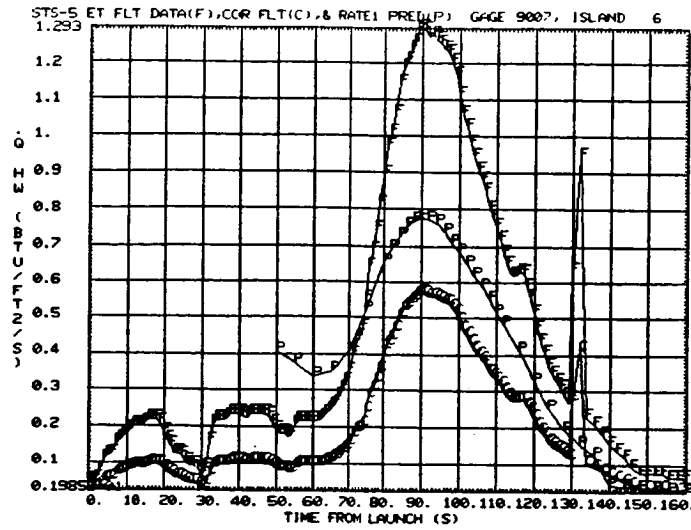


NOTE:

- Thermal Mismatch was Considered

Fig. A.4c Aerothermal Analysis for Gage 9007 in STS-4

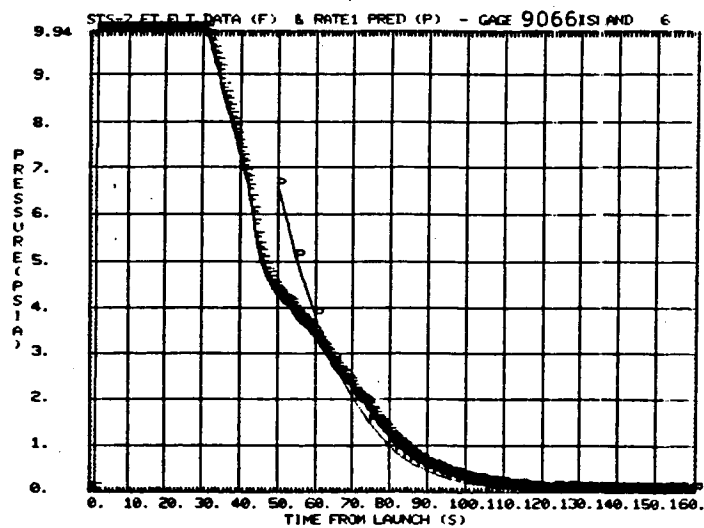
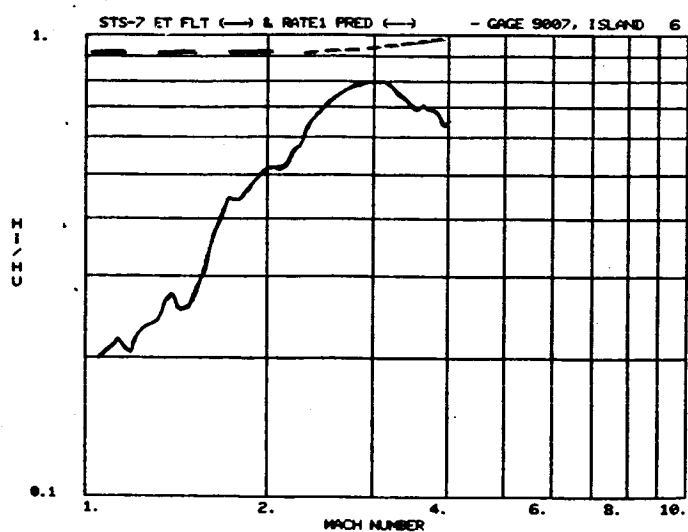
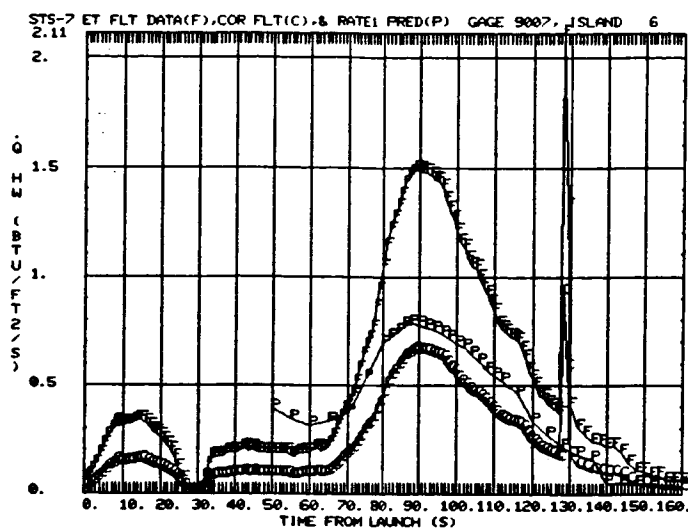
REMTECH INC.



NOTE:

- Thermal Mismatch was Considered

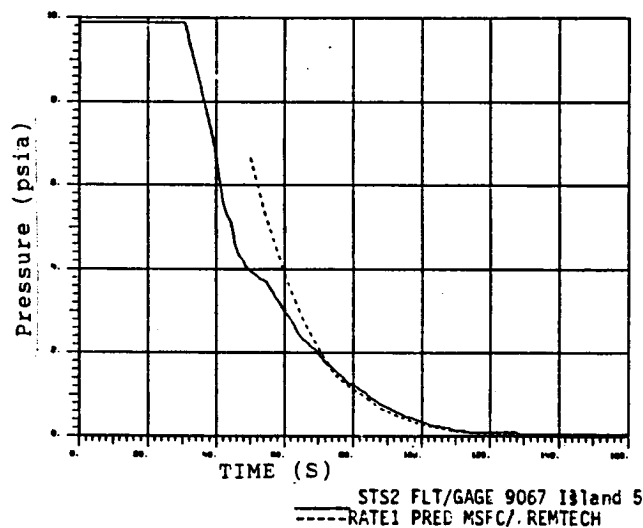
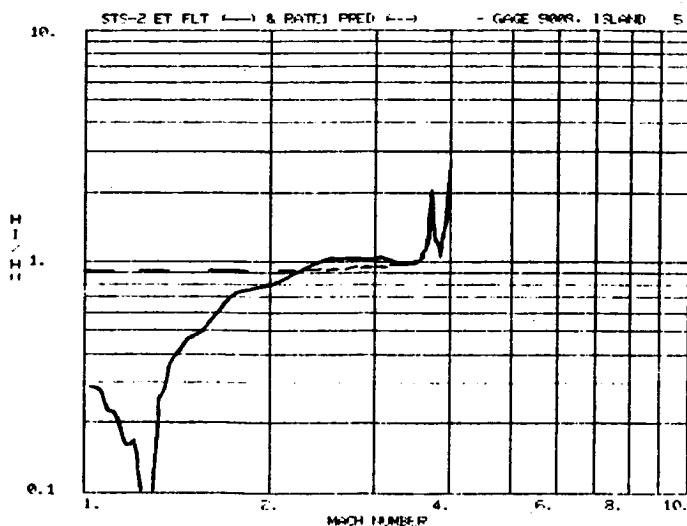
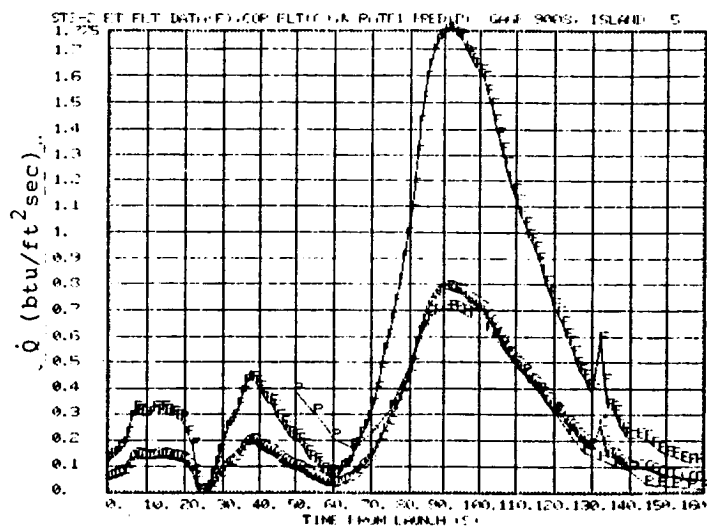
Fig. A.4d Aerothermal Analysis for Gage 9007 in STS-5



NOTE:

- Thermal Mismatch was Considered

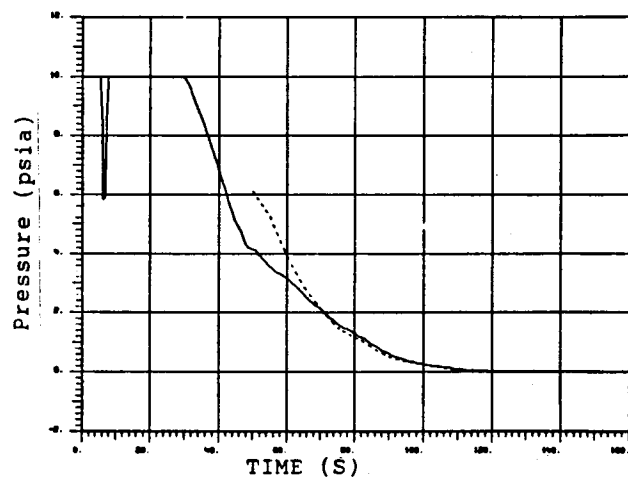
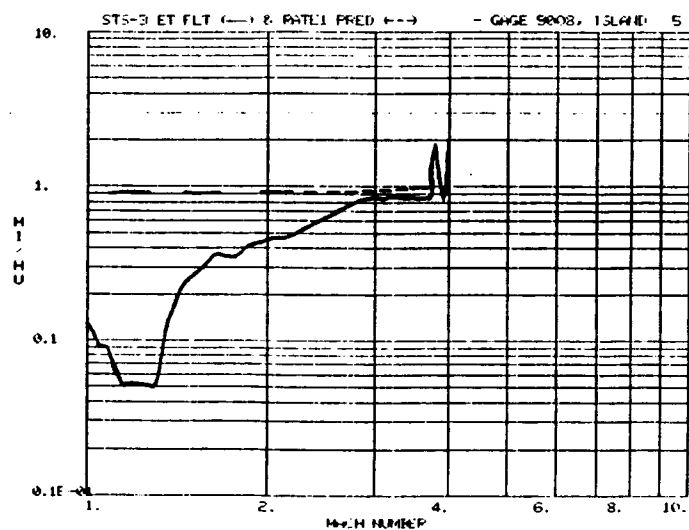
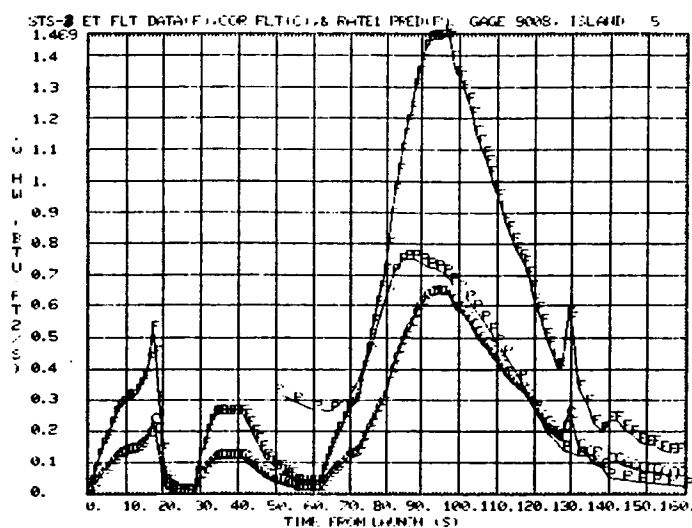
Fig. A.4e Aerothermal Analysis for Gage 9007 in STS-7



NOTE:

- Thermal Mismatch was Considered

Fig. A.5a Aerothermal Analysis for Gage 9008 in STS-2

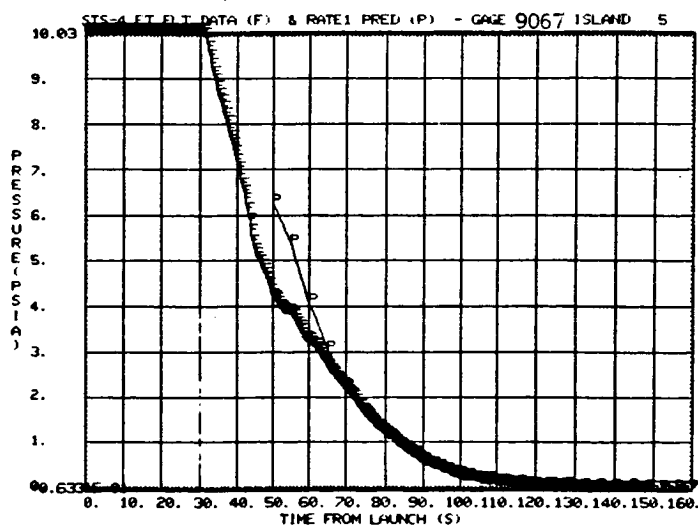
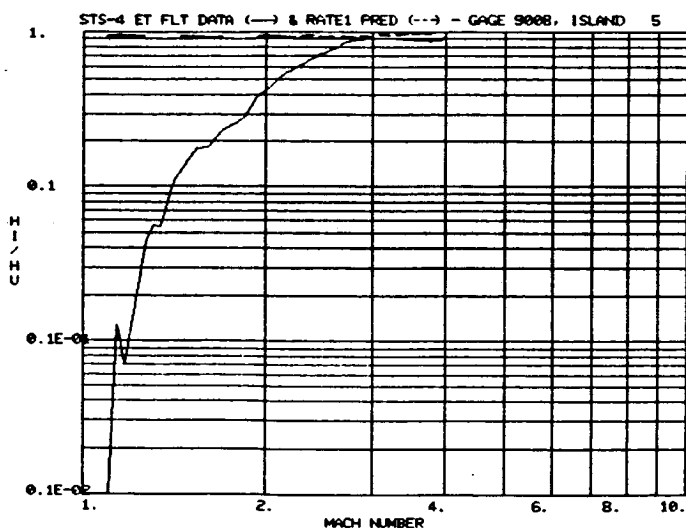
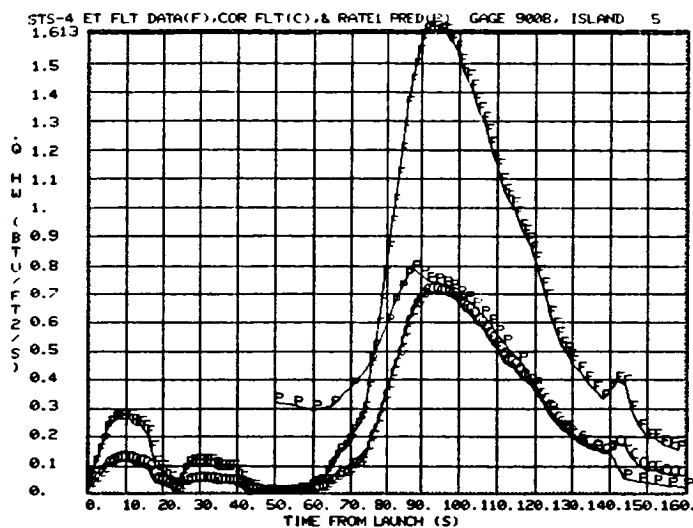


— STS3 FLT/GAGE 9067 (ISLAND 5)
--- RATE1 BET03 PRED

NOTE:

- Thermal Mismatch was Considered

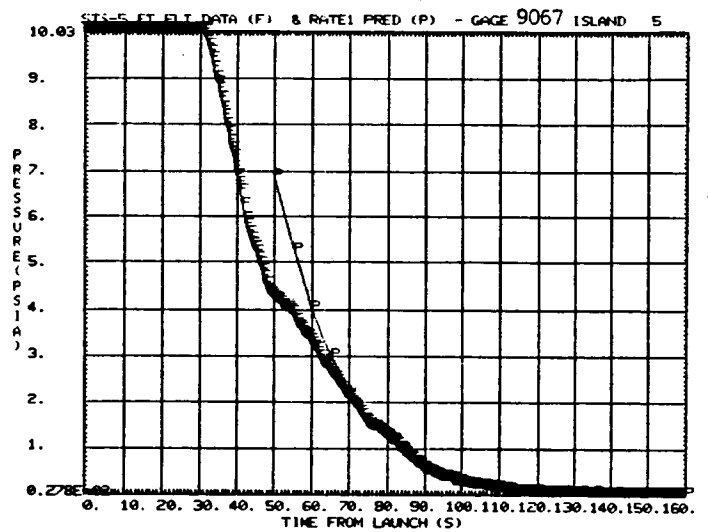
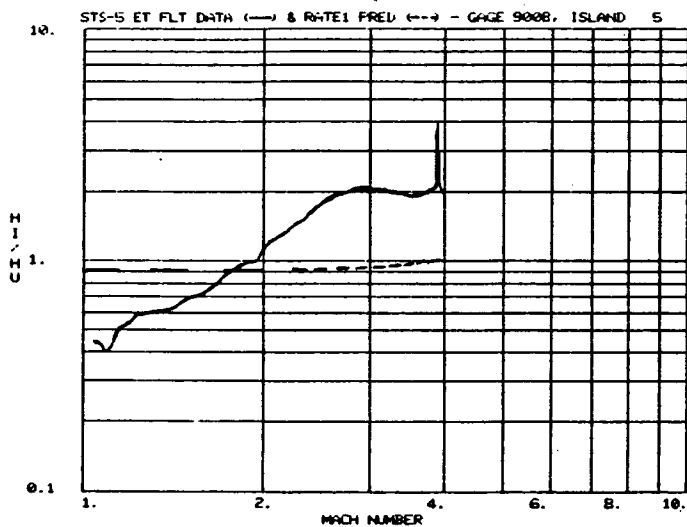
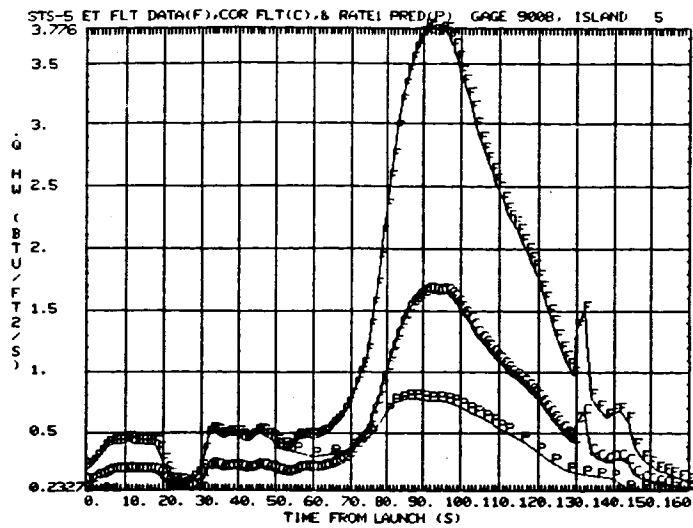
Fig. A.5b Aerothermal Analysis for Gage 9008 in STS-3



NOTE:

- Thermal Mismatch was Considered

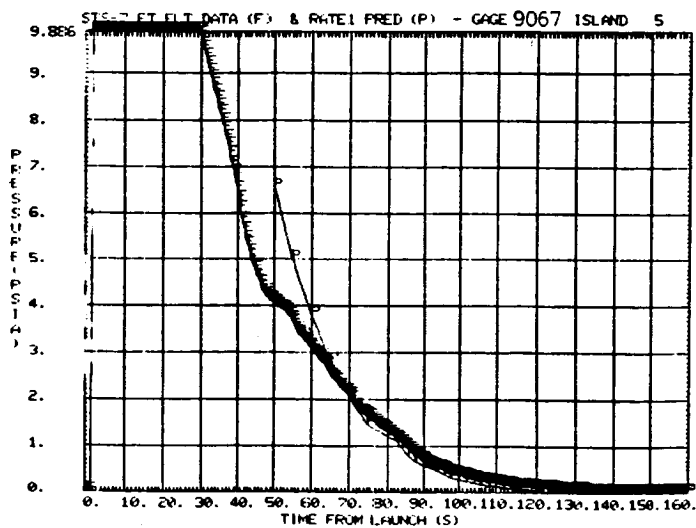
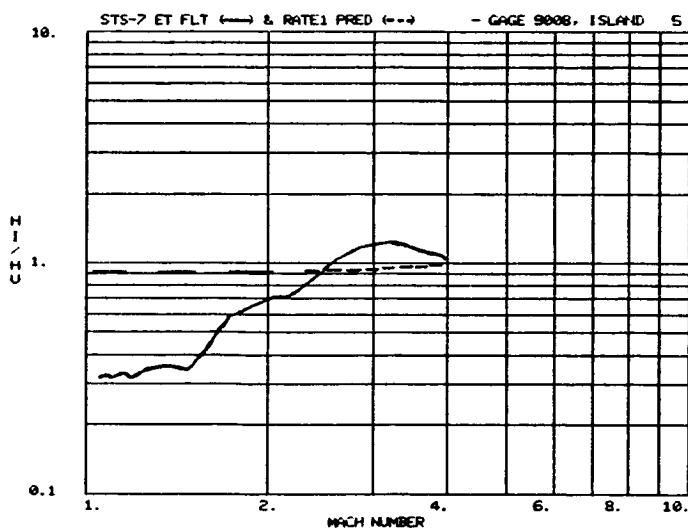
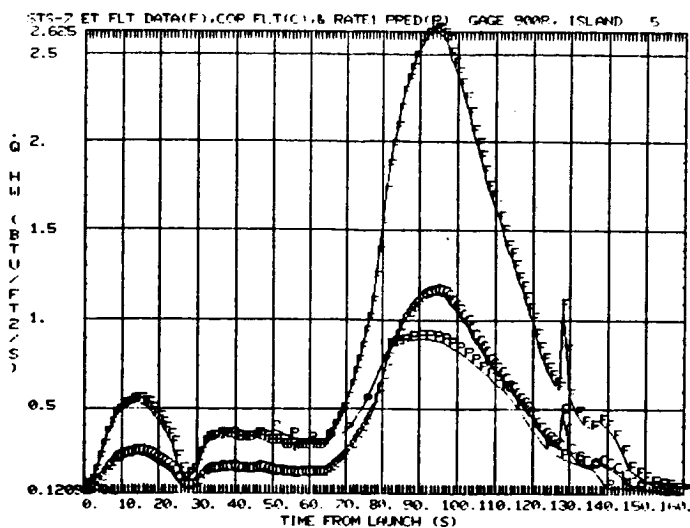
Fig. A.5c Aerothermal Analysis for Gage 9008 in STS-4



NOTE:

- Thermal Mismatch was Considered

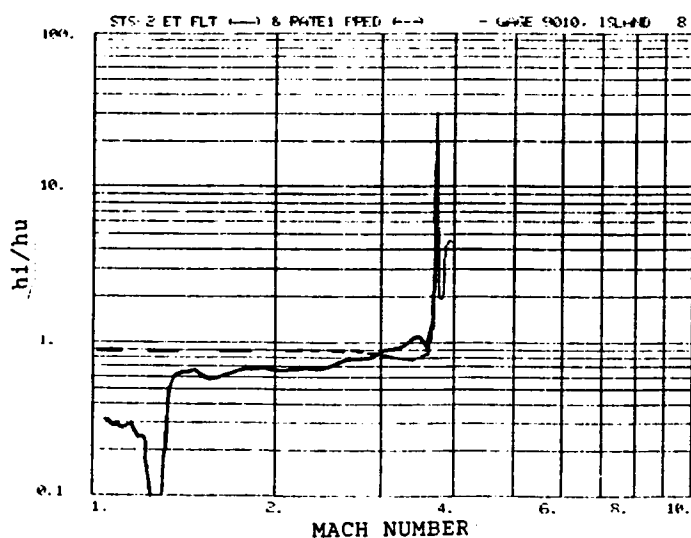
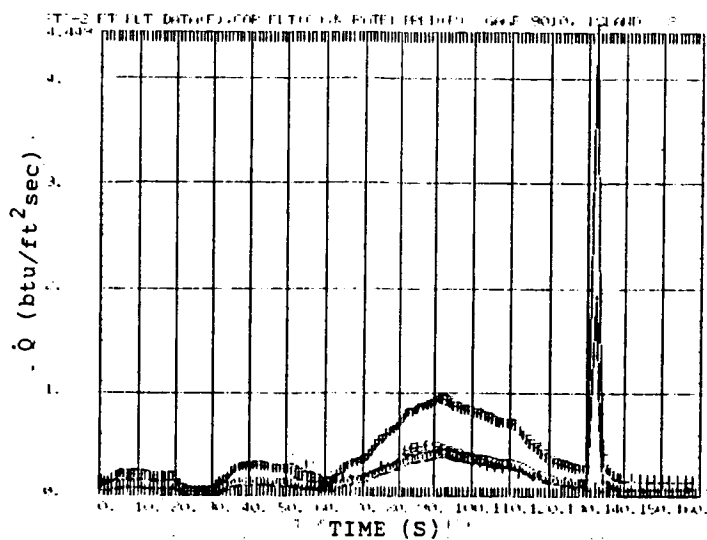
Fig. A.5d Aerothermal Analysis for Gage 9008 in STS-5



NOTE:

- Thermal Mismatch was Considered

Fig. A.5e Aerothermal Analysis for Gage 9008 in STS-7

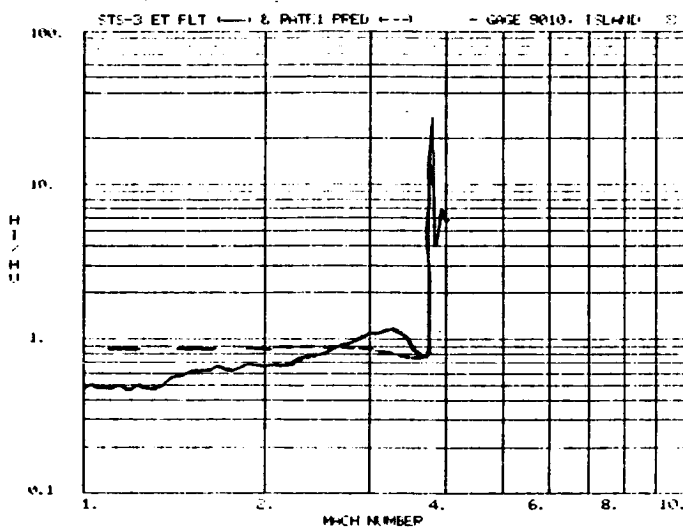
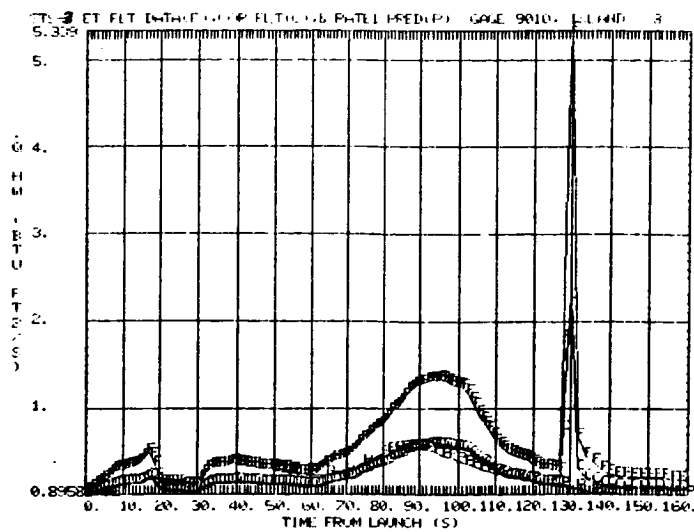


NOTE:

- Thermal Mismatch was Considered

Fig. A.6a Aerothermal Analysis for Gage 9010 in STS-2

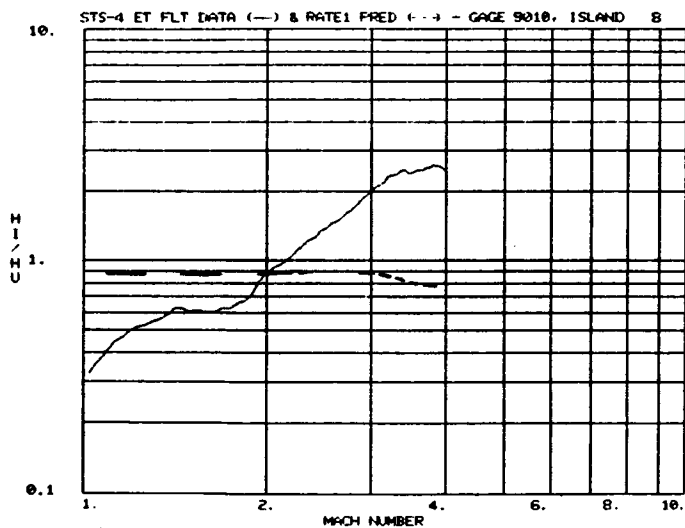
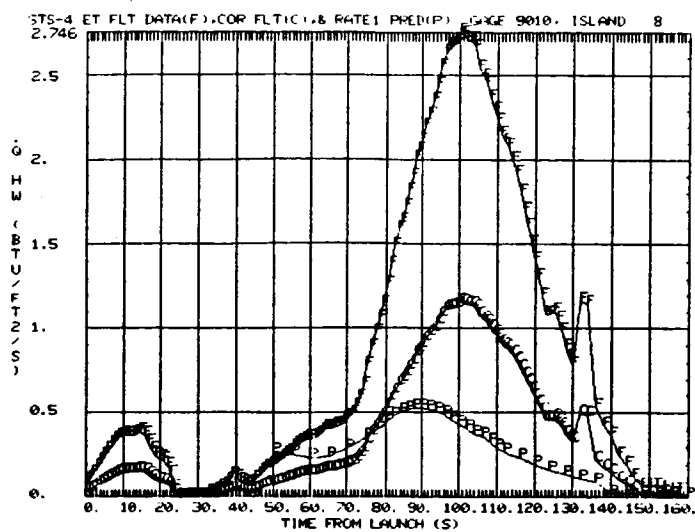
REMTECH INC.



NOTE:

- Thermal Mismatch was Considered

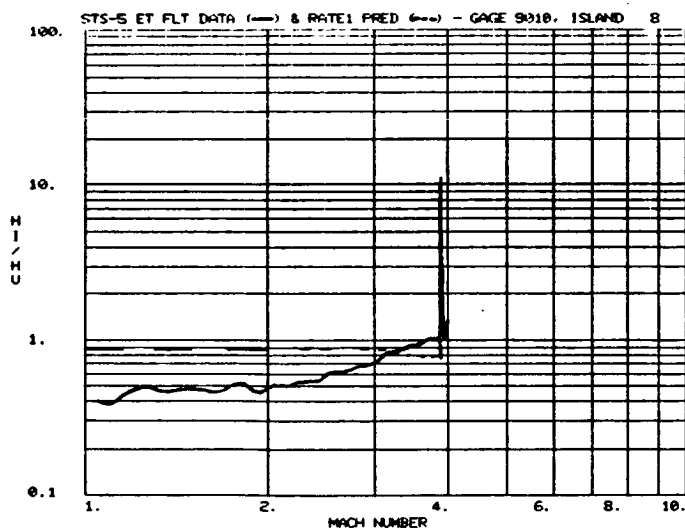
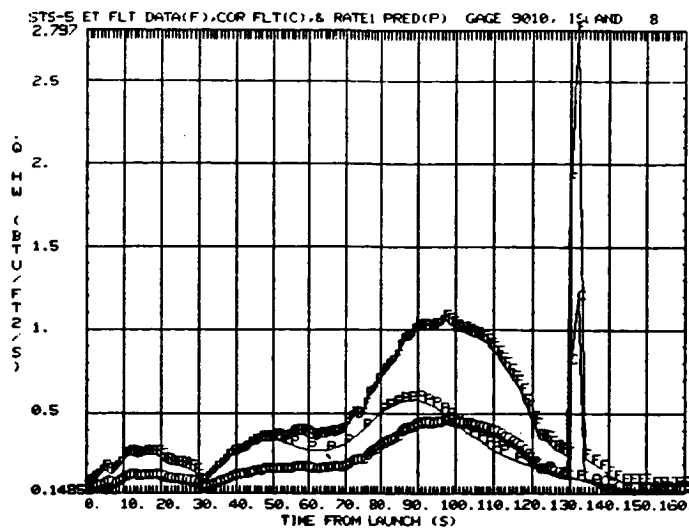
Fig. A.6b Aerothermal Analysis for Gage 9010 in STS-3



NOTE:

- Thermal Mismatch was Considered

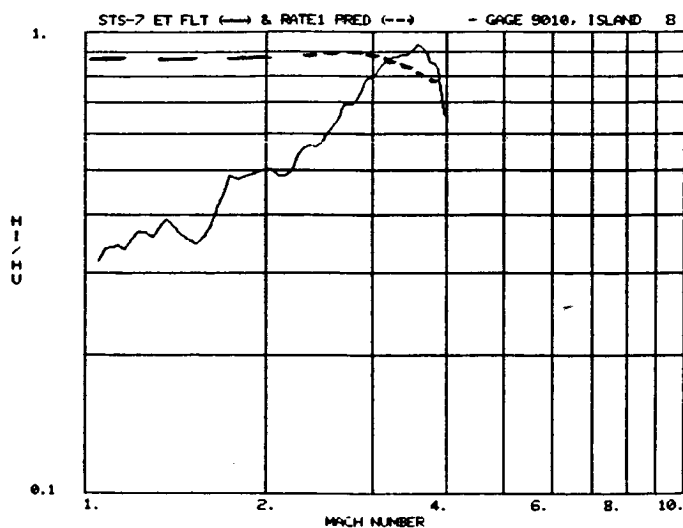
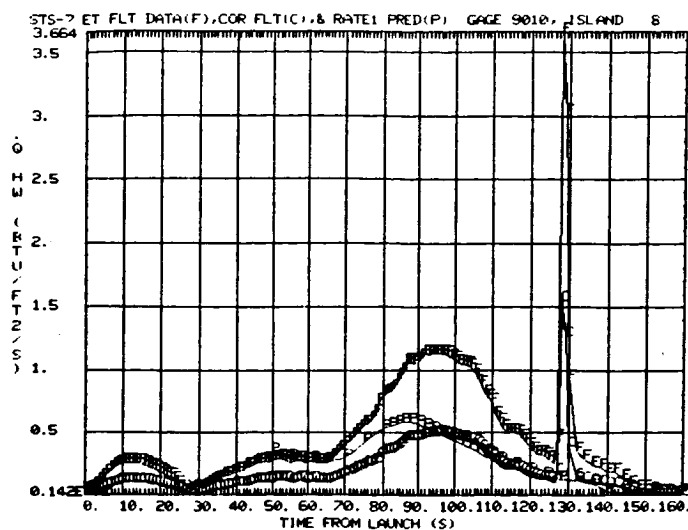
Fig. A.6c Aerothermal Analysis for Gage 9010 in STS-4



NOTE:

- Thermal Mismatch was Considered

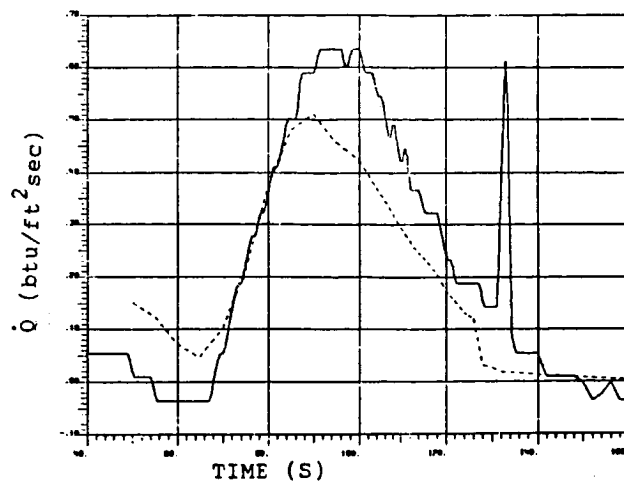
Fig. A.6d Aerothermal Analysis for Gage 9010 in STS-5



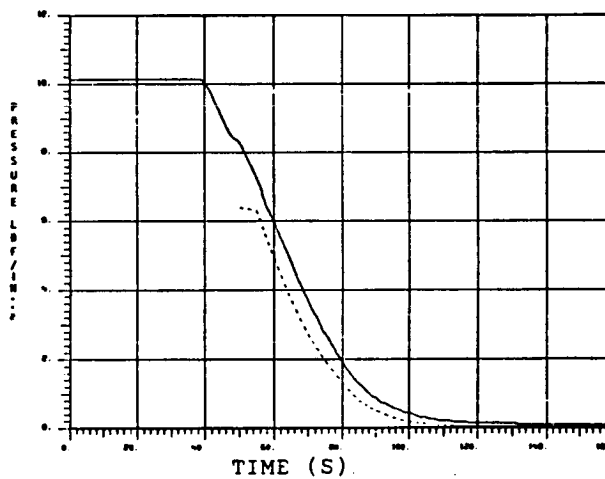
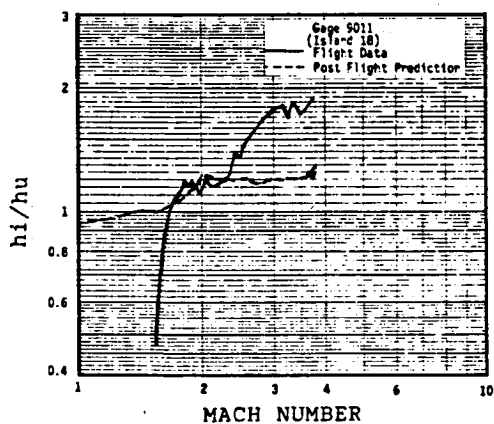
NOTE:

- Thermal Mismatch was Considered

Fig. A.6e Aerothermal Analysis for Gage 9010 in STS-7



— STS1 M.W. FLT/ISL 18 GAGE 9011
- - - BET01 RATE1 PRED MSFC/REMTECH



— ET FLT/GAGE 9069 ISL 18
- - - RATE1 PRED MSFC/REMTECH

Fig. A.7a Aerothermal Analysis for Gage 9011 in STS-1

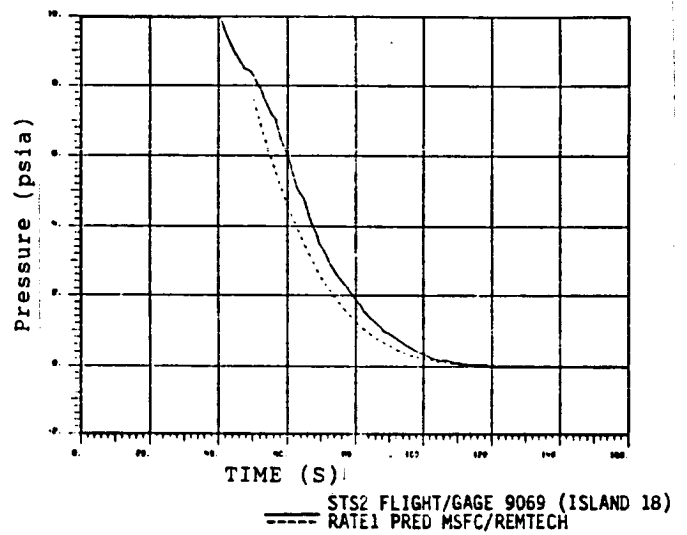
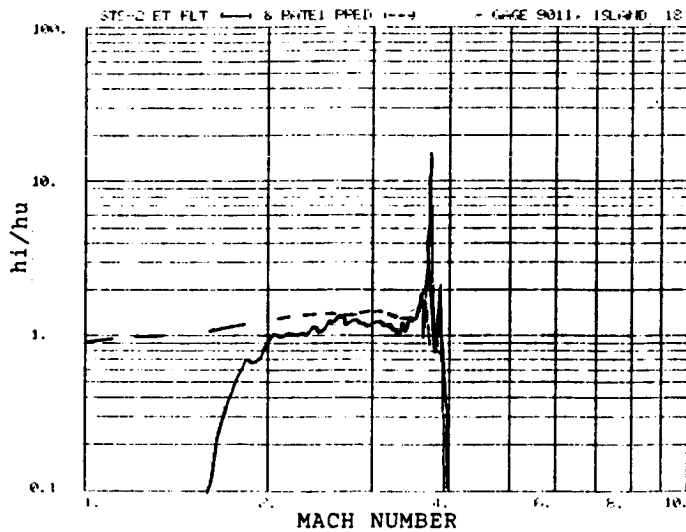
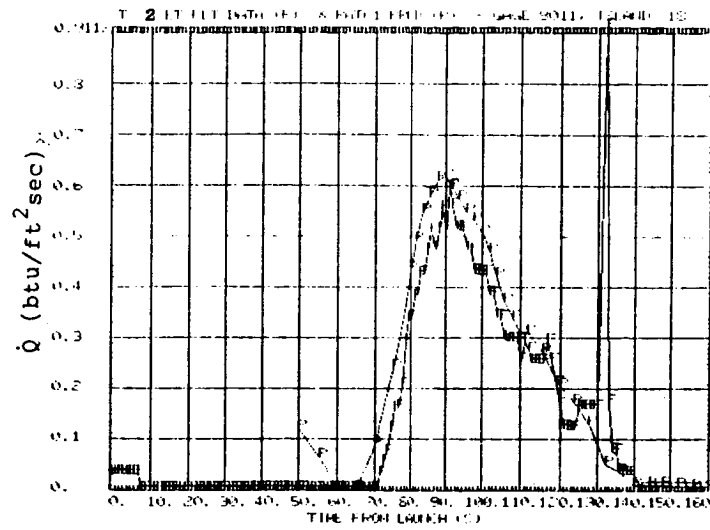


Fig. A.7b Aerothermal Analysis for Gage 9011 in STS-2

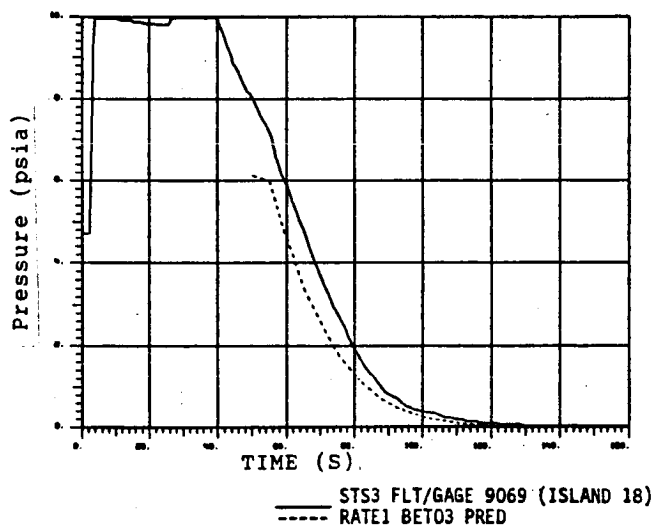
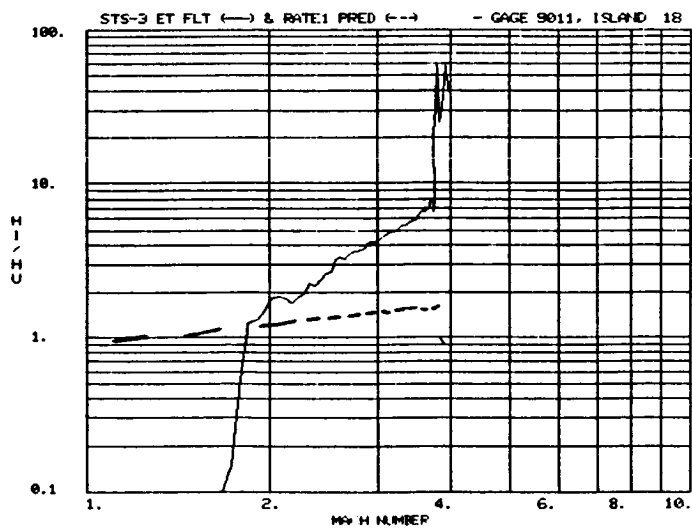
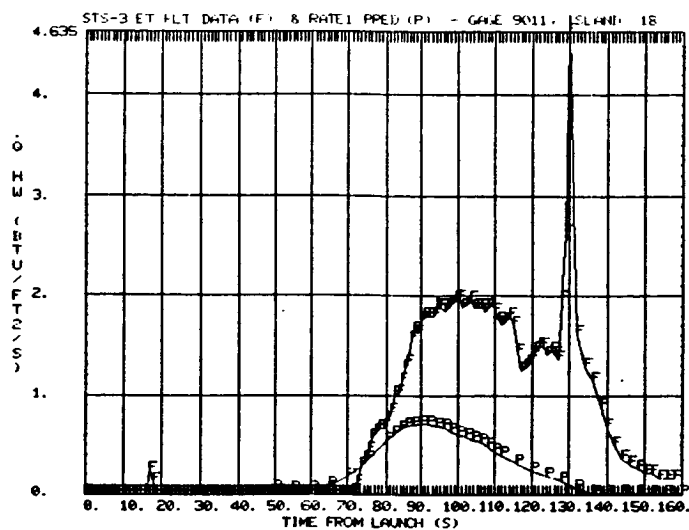


Fig. A.7c Aerothermal Analysis for Gage 9011 in STS-3

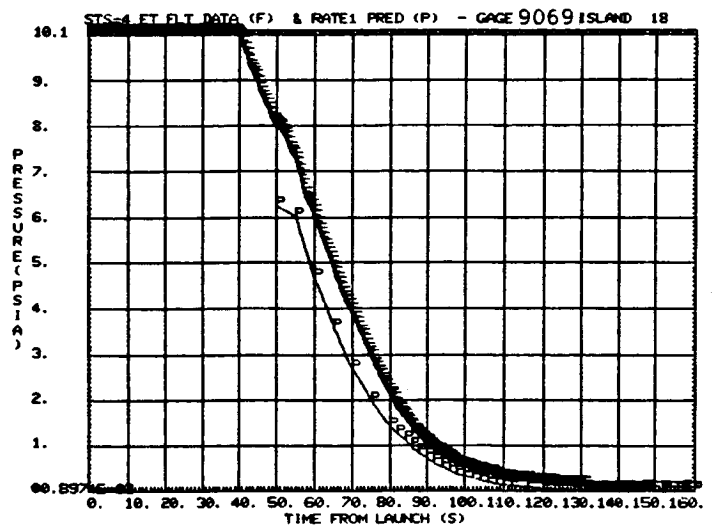
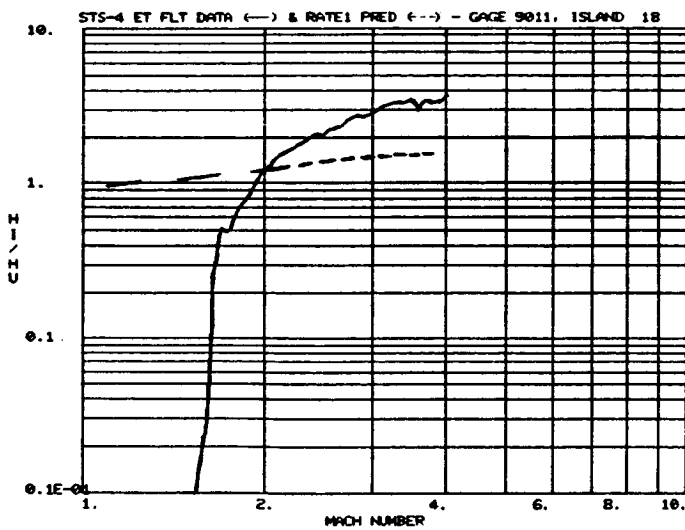
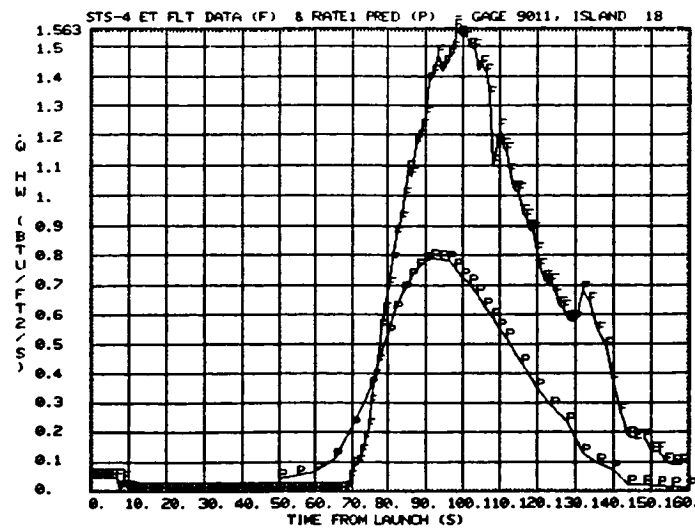


Fig. A.7d Aerothermal Analysis for Gage 9011 in STS-4

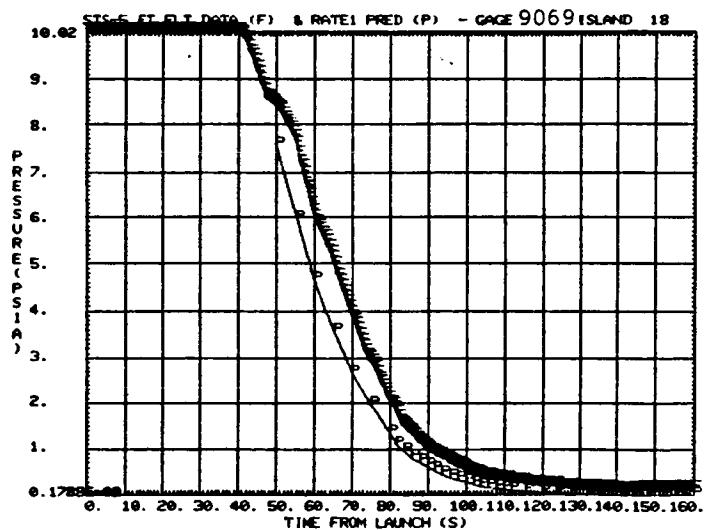
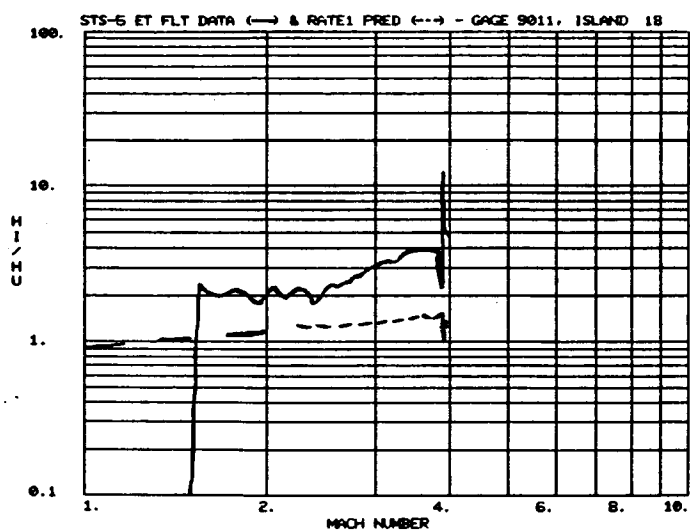
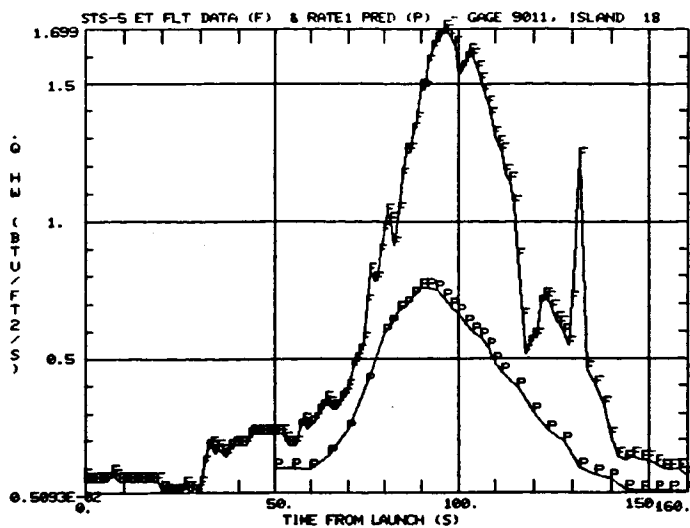


Fig. A.7e Aerothermal Analysis for Gage 9011 in STS-5

REMTECH INC.

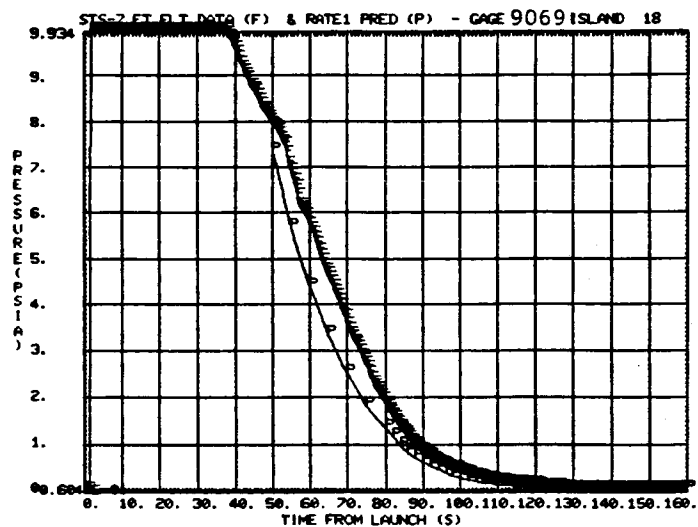
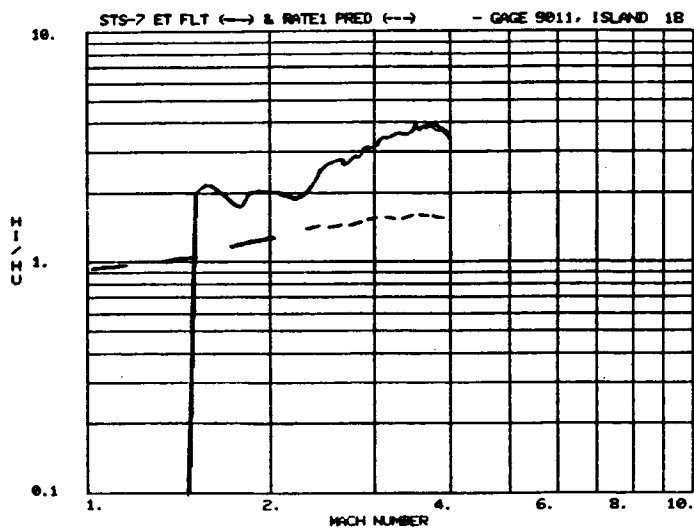
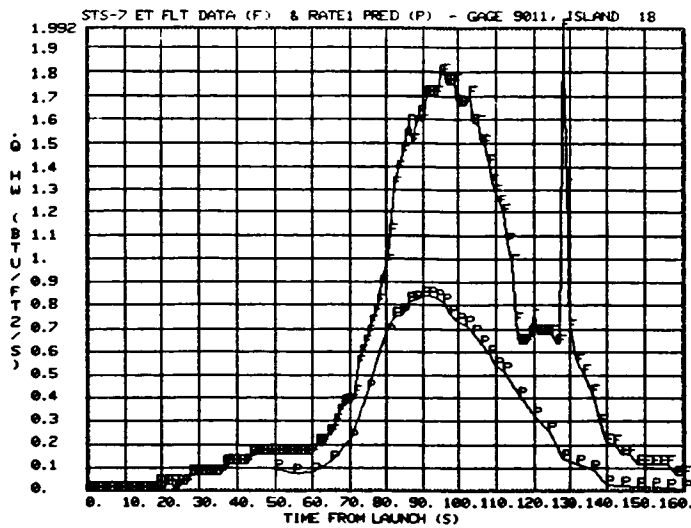


Fig. A.7f Aerothermal Analysis for Gage 9011 in STS-7

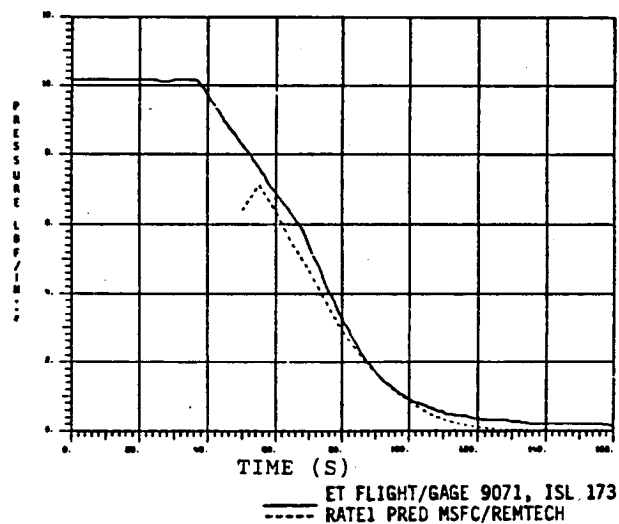
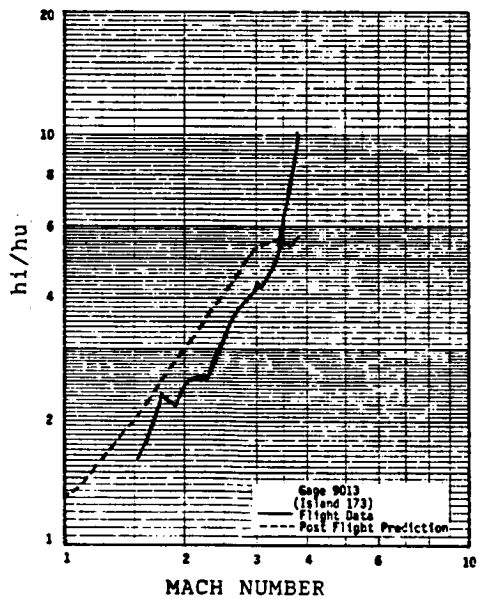
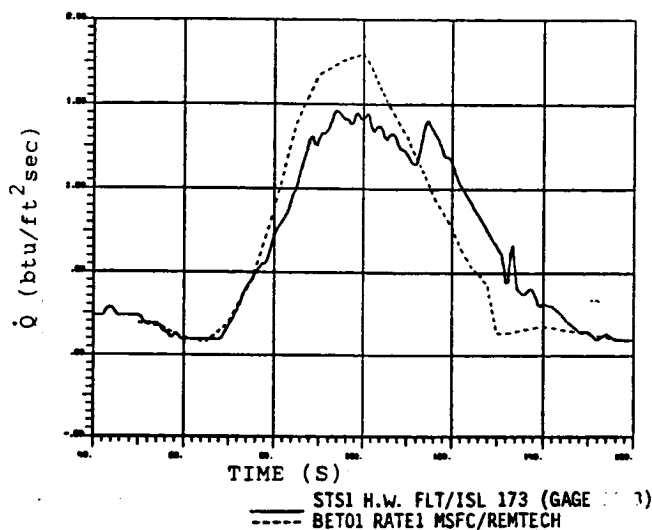


Fig. A.8a Aerothermal Analysis for Gage 9013 in STS-1

REMTECH INC.

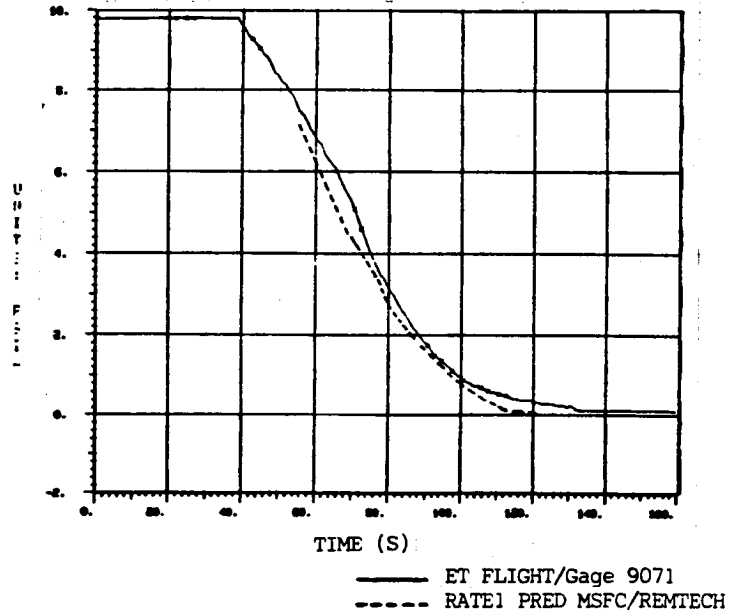
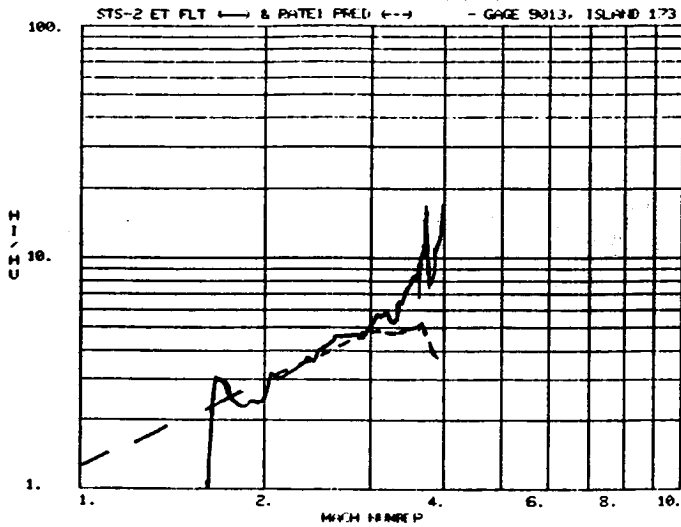
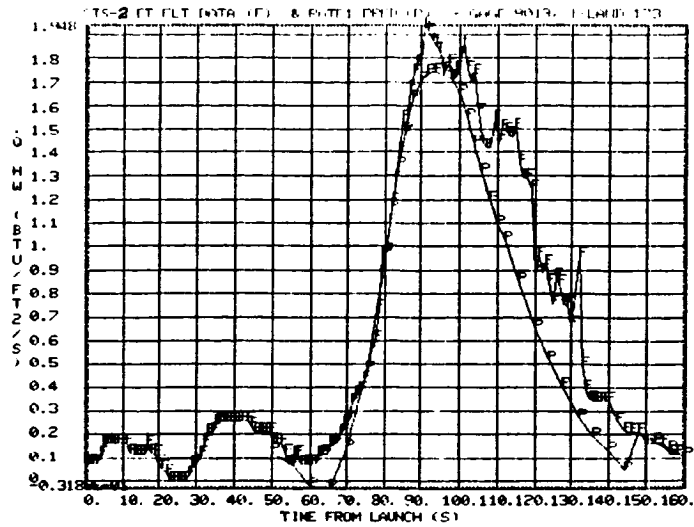


Fig. Fig.. A.8b Aerothermal Analysis for Gage 9013 in STS-2

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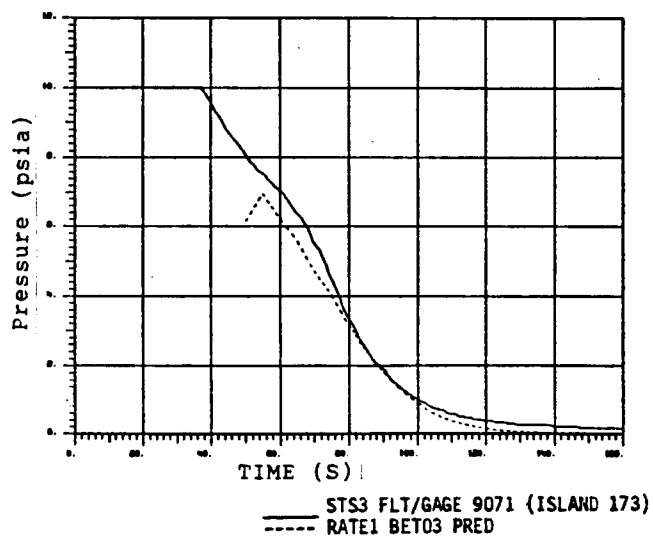
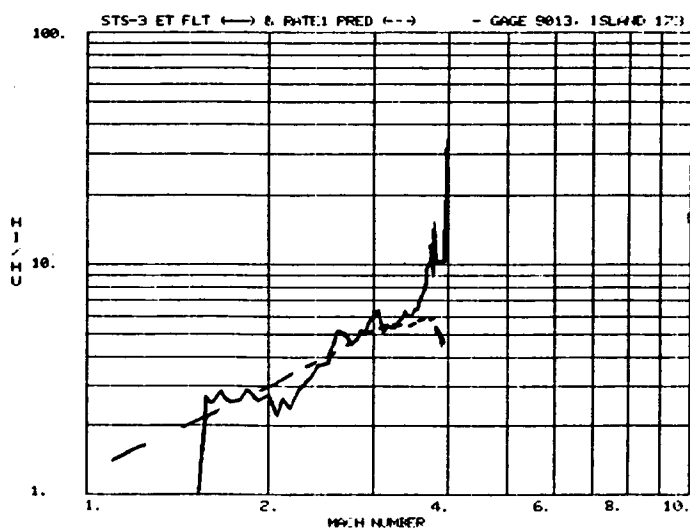
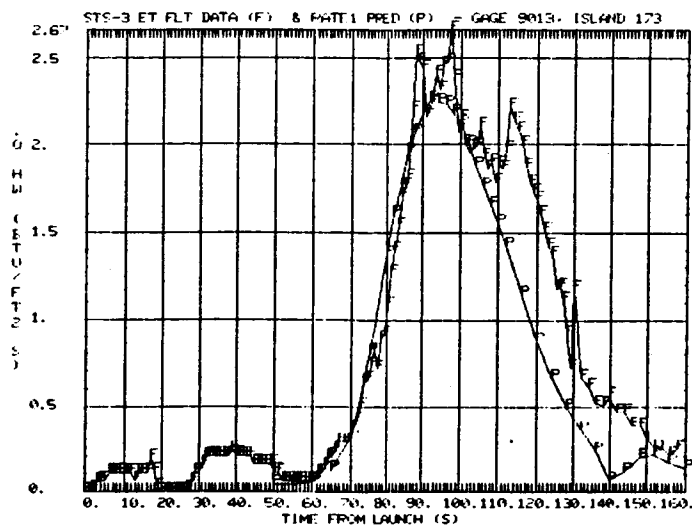


Fig. A.8c Aerothermal Analysis for Gage 9013 in STS-3

REMTECH INC.

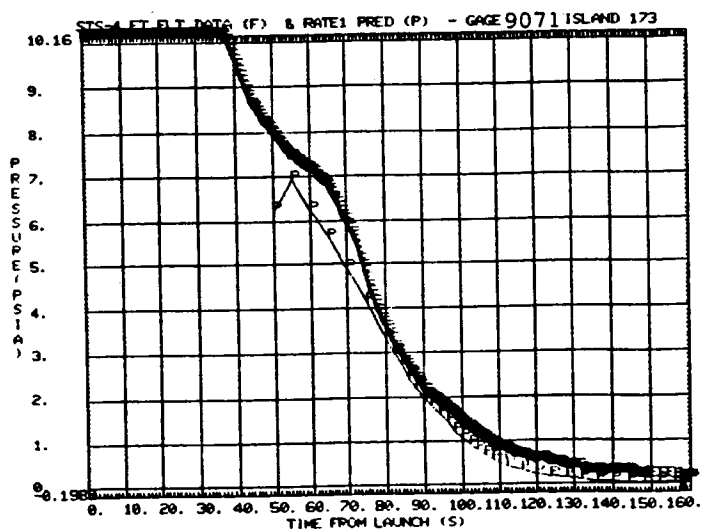
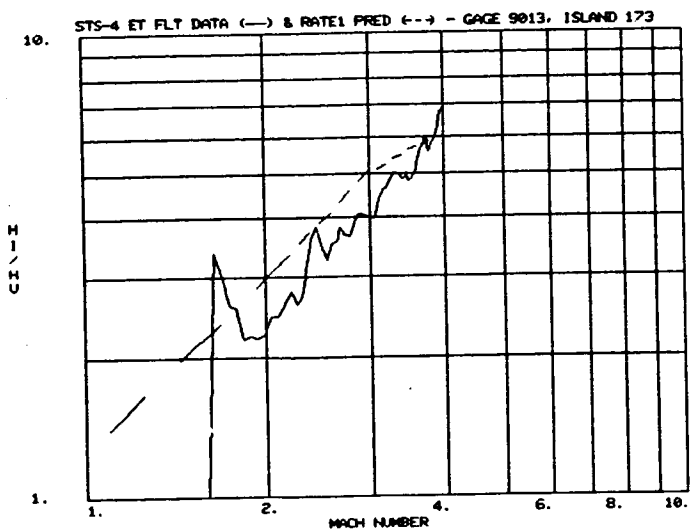
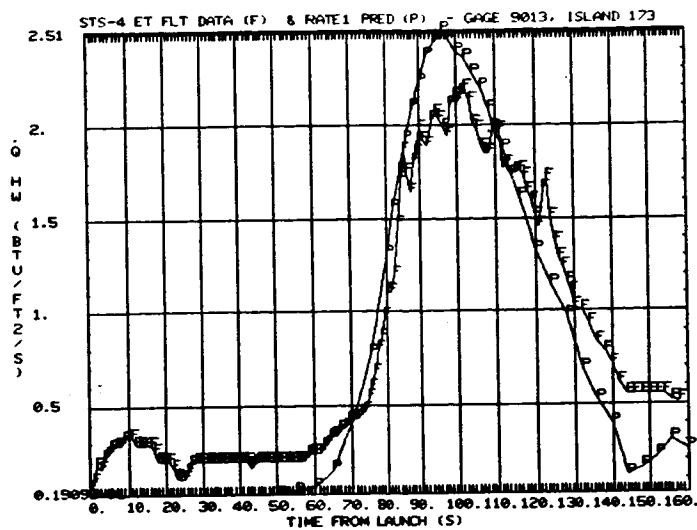


Fig. A.8d Aerothermal Analysis for Gage 9013 in STS-4

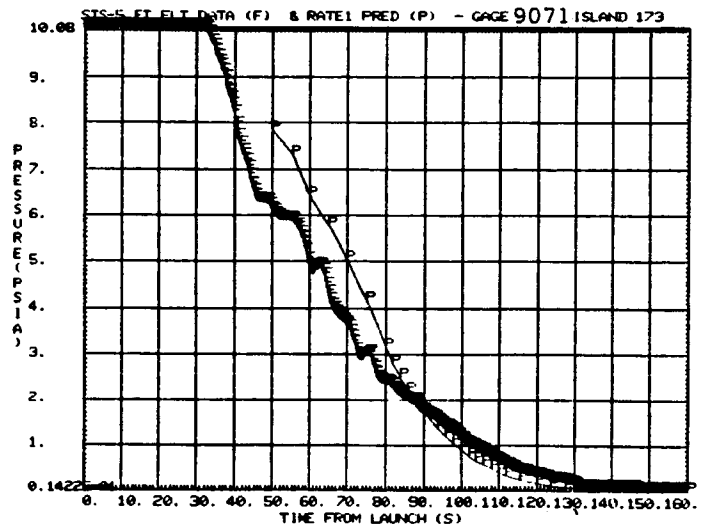
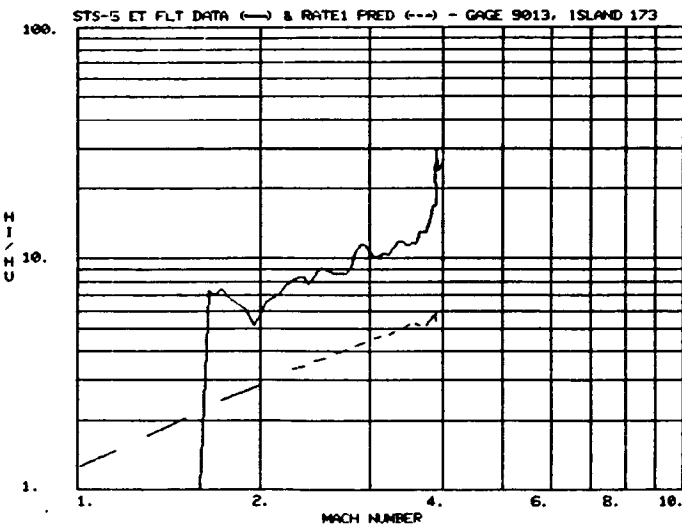
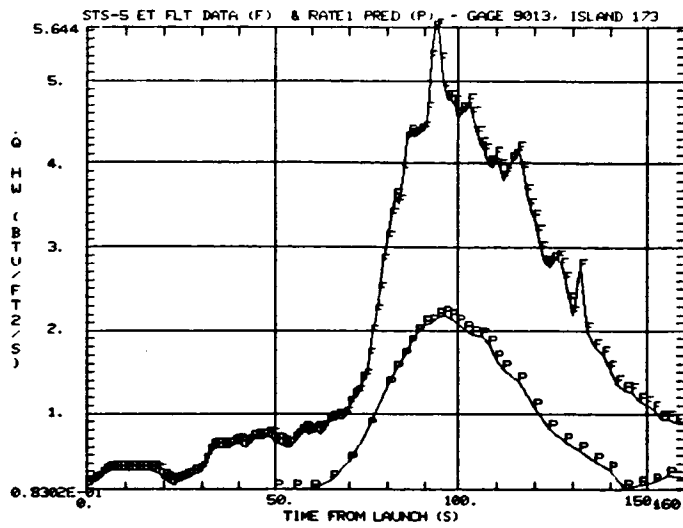
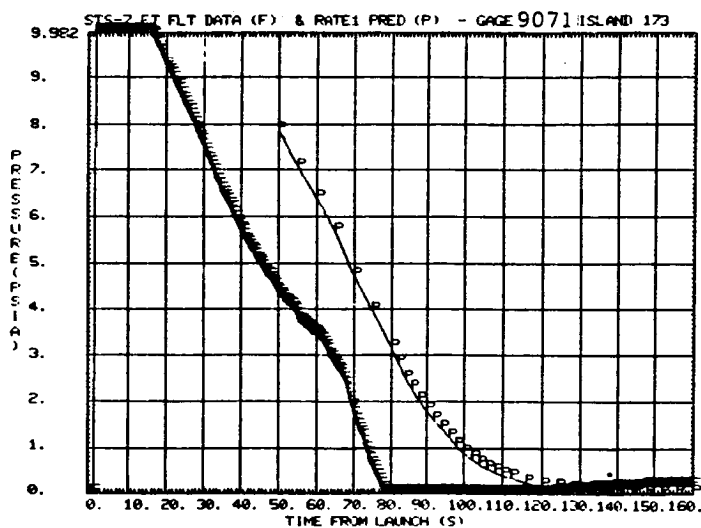
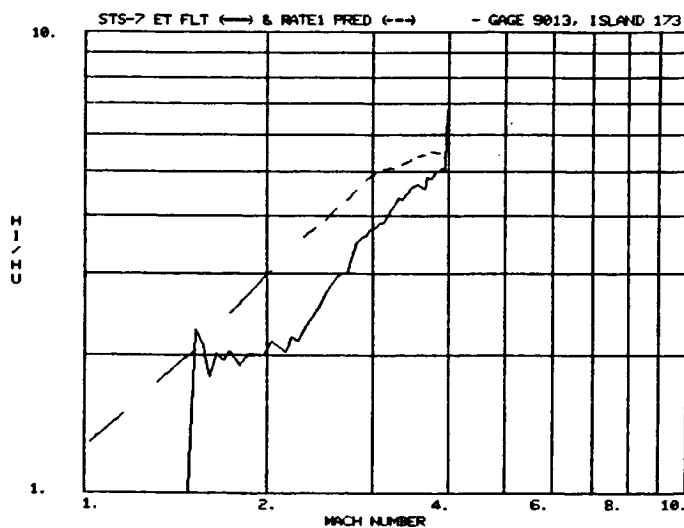
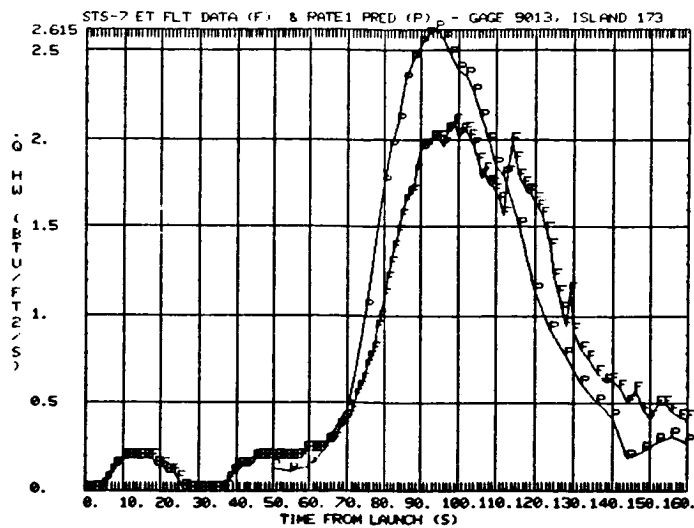


Fig. A.8e Aerothermal Analysis for Gage 9013 in STS-5



NOTE:
Bad Pressure Measurements

Fig. A.8f Aerothermal Analysis for Gage 9013 in STS-7

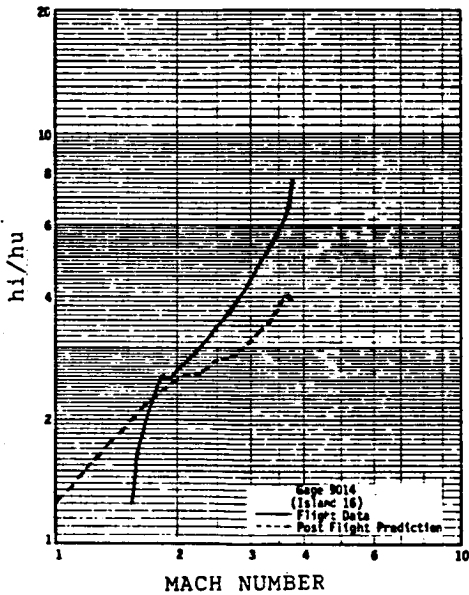
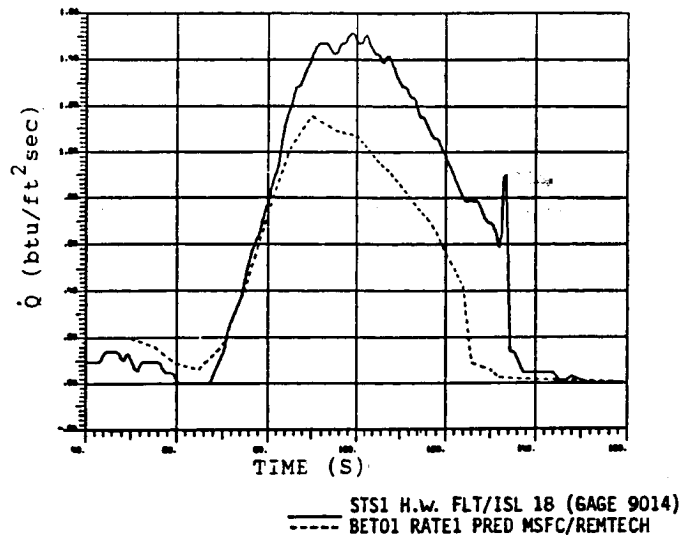


Fig. A.9a Aerothermal Analysis for GAGE 9014 in STS-1

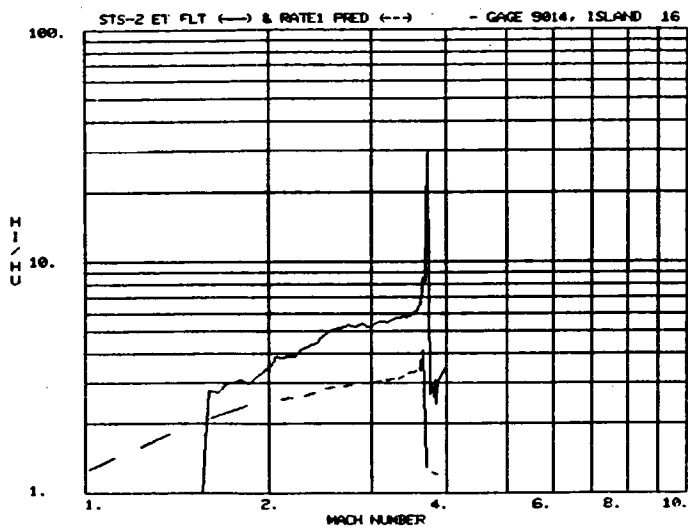
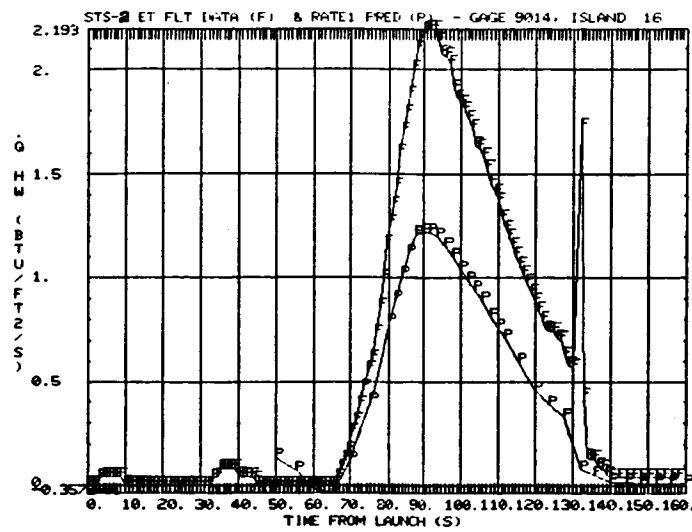


Fig. A.9b Aerothermal Analysis for Gage 9014 in STS-2

REMTECH INC.

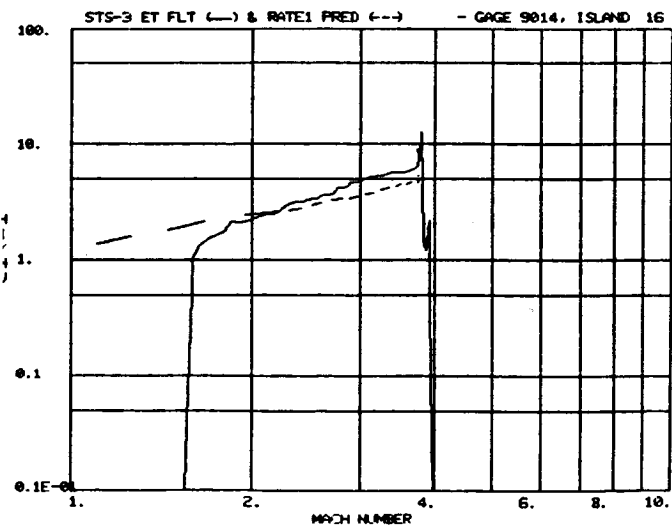
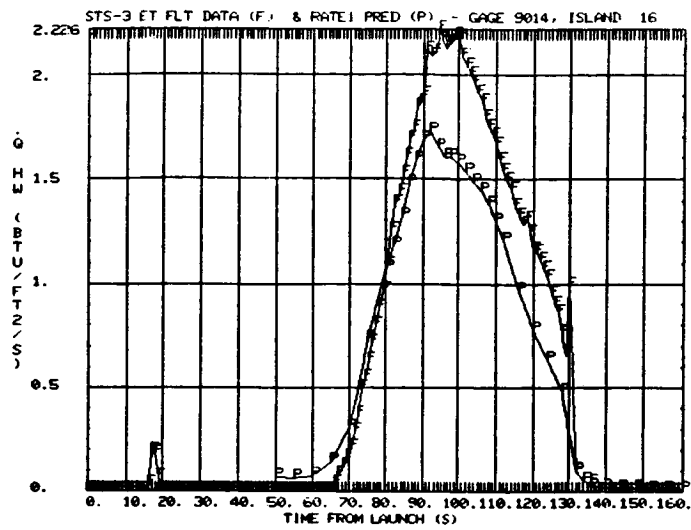


Fig. A.9c Aerothermal Analysis for Gage 9014 in STS-3

REMTECH INC.

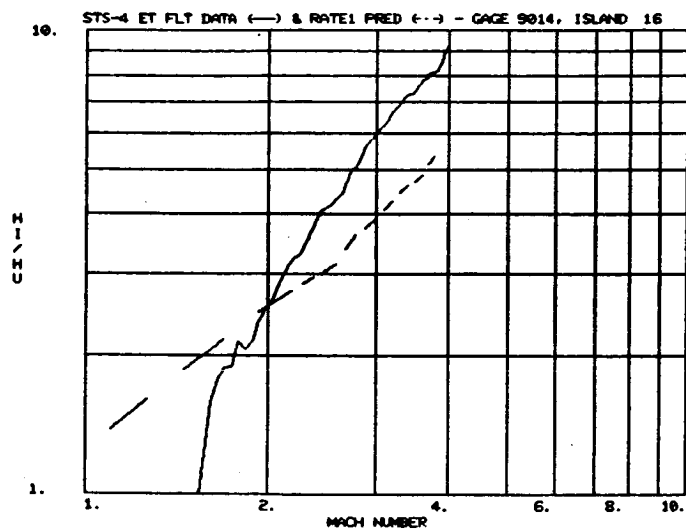
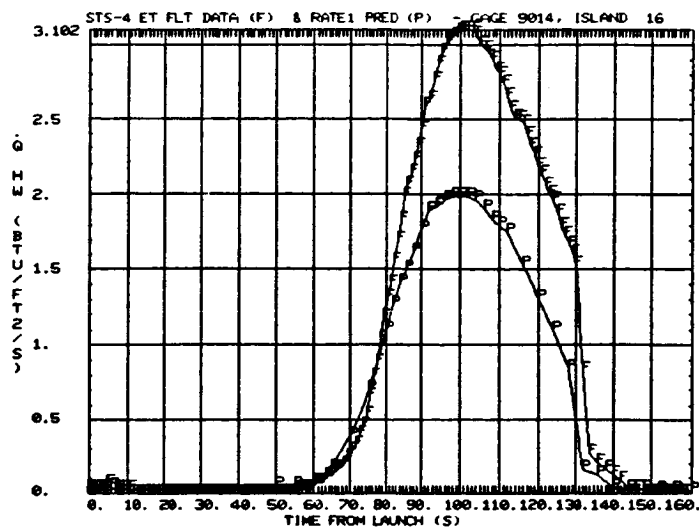


Fig. A.9d Aerothermal Analysis for GAge 9014 in STS-4

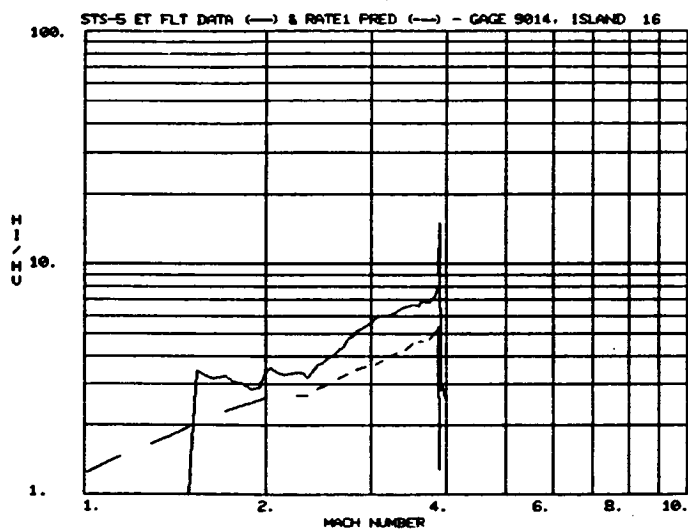
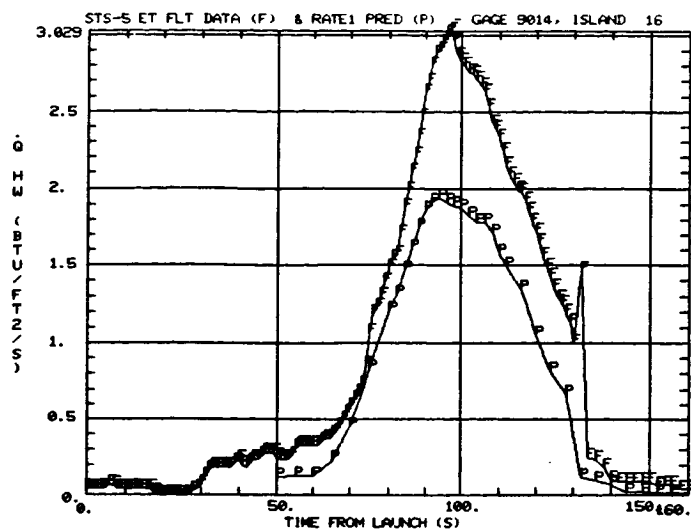


Fig. A.9e Aerothermal Analysis for Gage 9014 in STS-5

REMTECH INC.

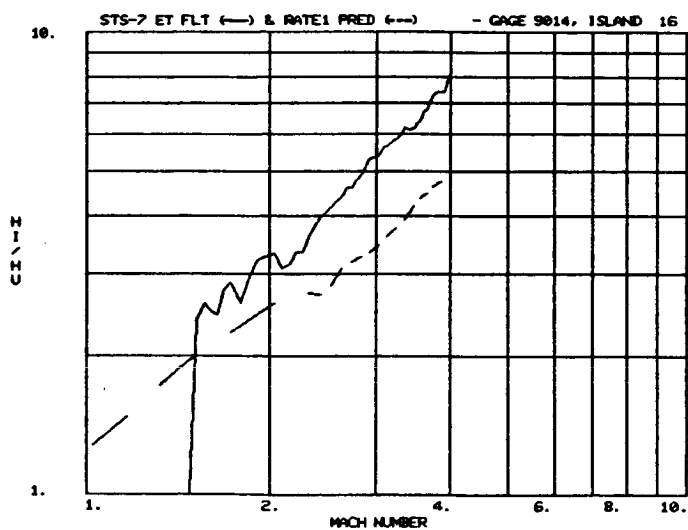
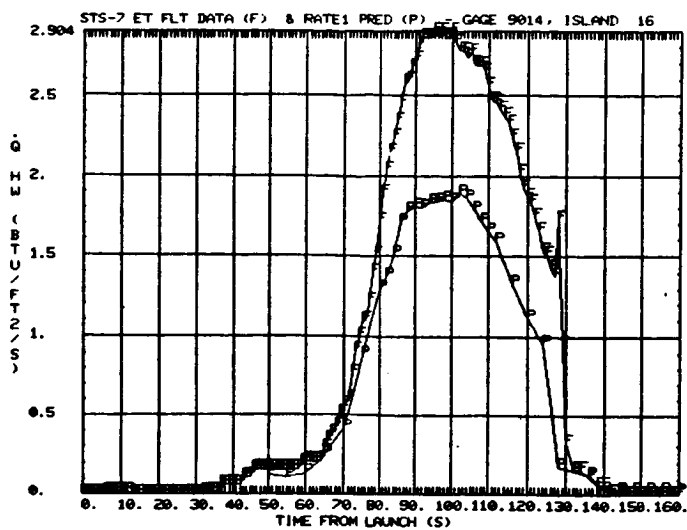


Fig. A.9f Aerothermal Analysis for Gage 9014 in STS-7

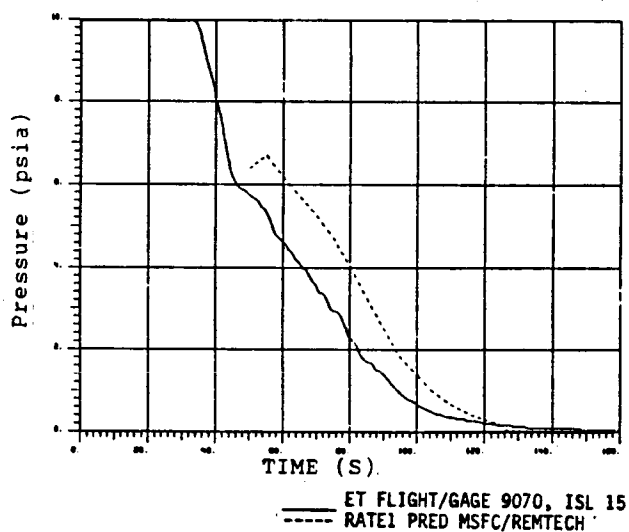
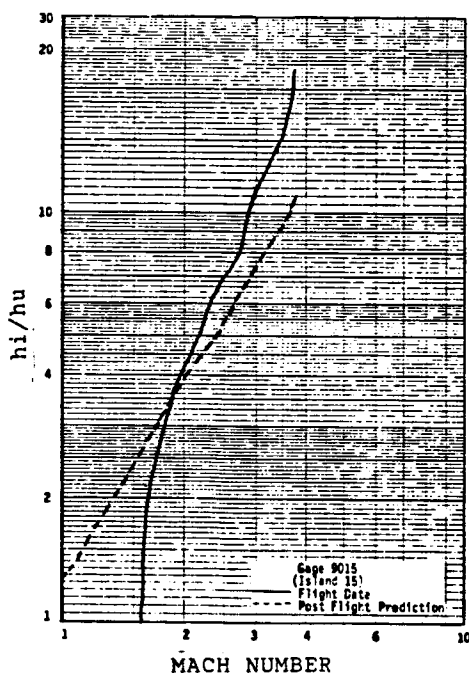
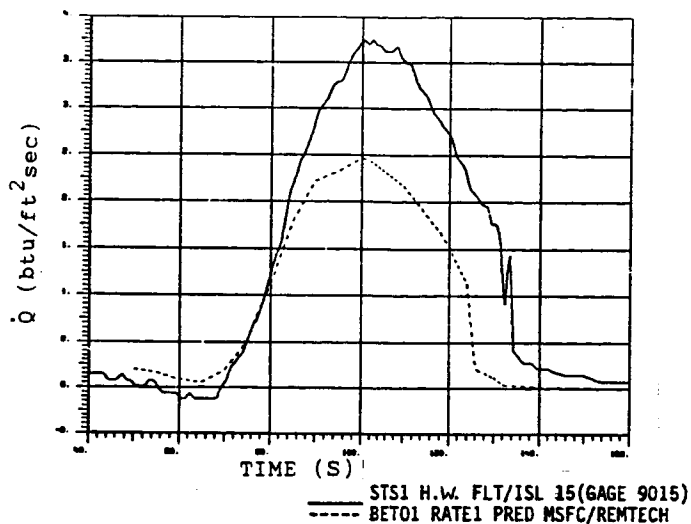


Fig. A.10a Aerothermal Analysis for Gage 9015 in STS-1

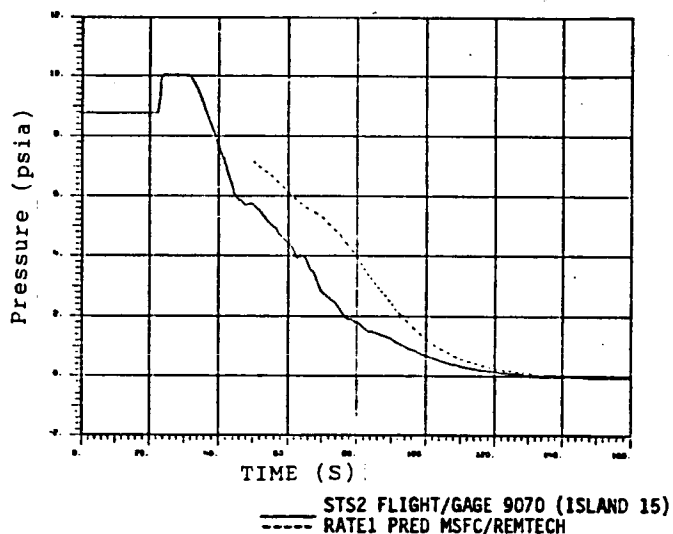
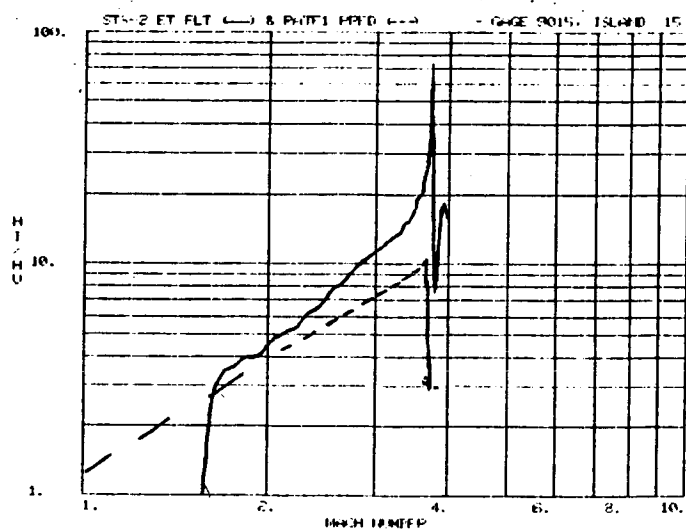
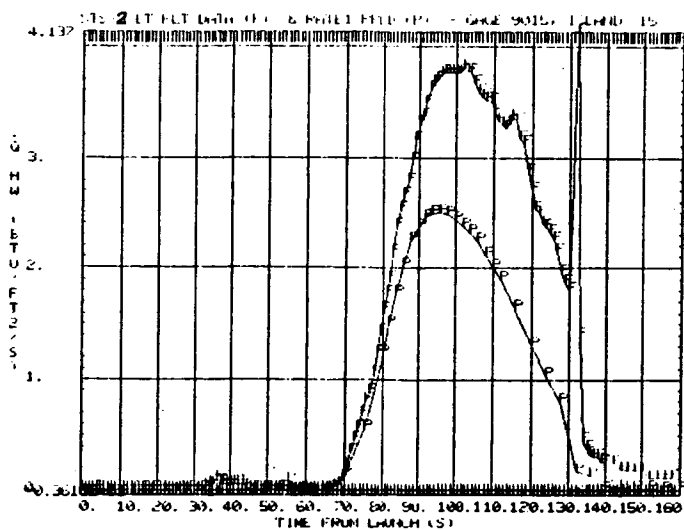


Fig. A.10b Aerothermal Analysis for Gage 9015 in STS-2

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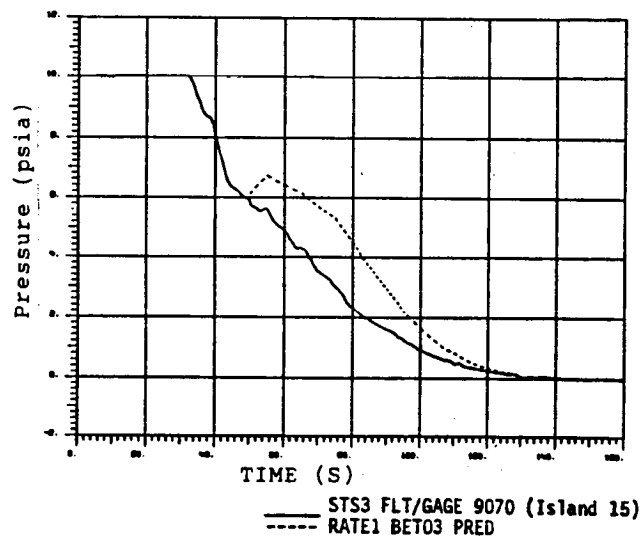
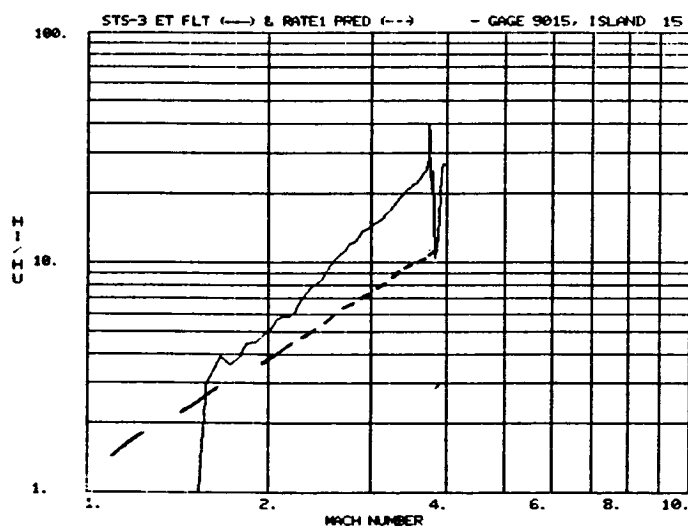
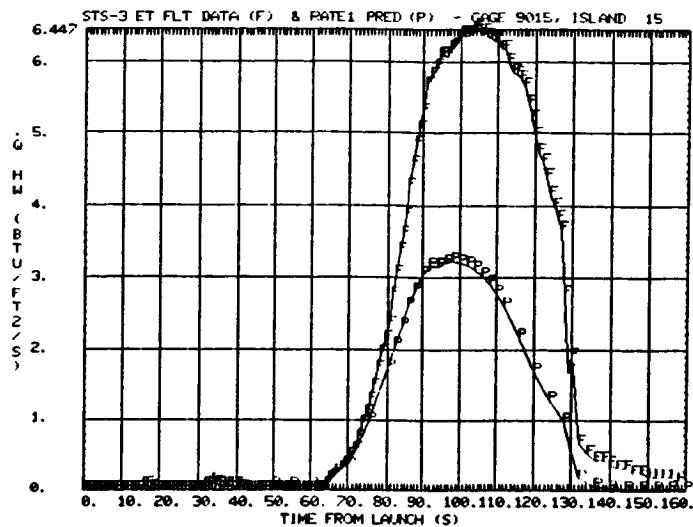


Fig. A.10c Aero-thermal Analysis for Gage 9015 in STS-3

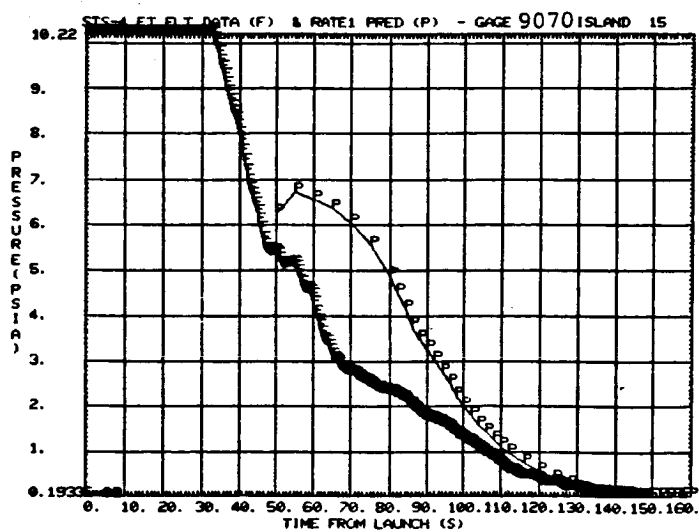
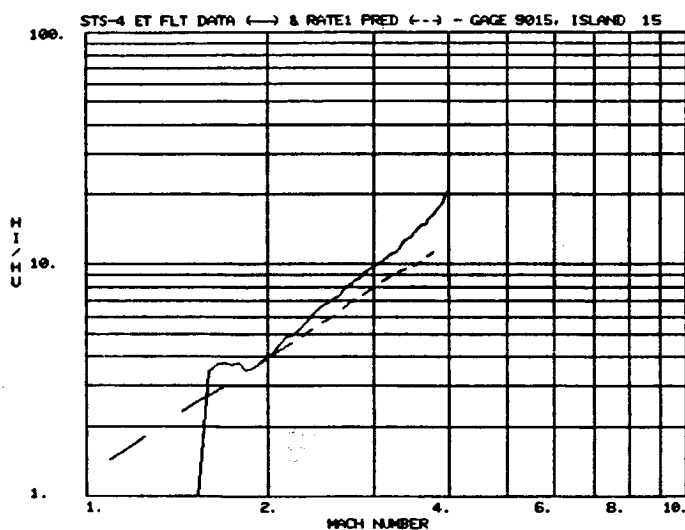
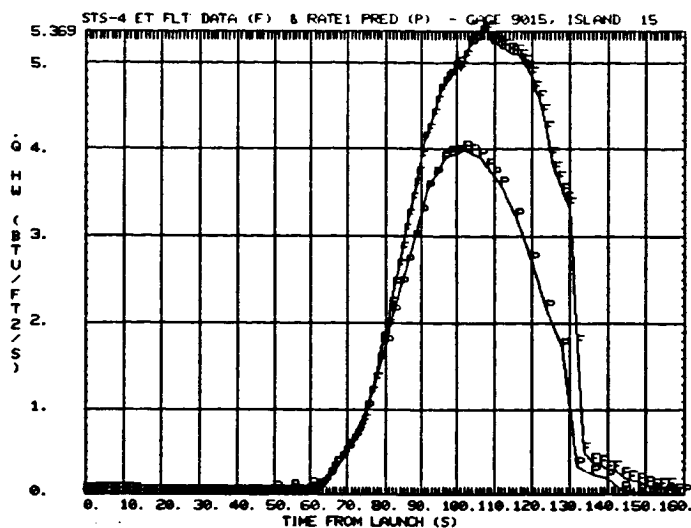


Fig. A.10d Aerothermal Analysis for Gage 9015 in STS-4

REMTECH INC.

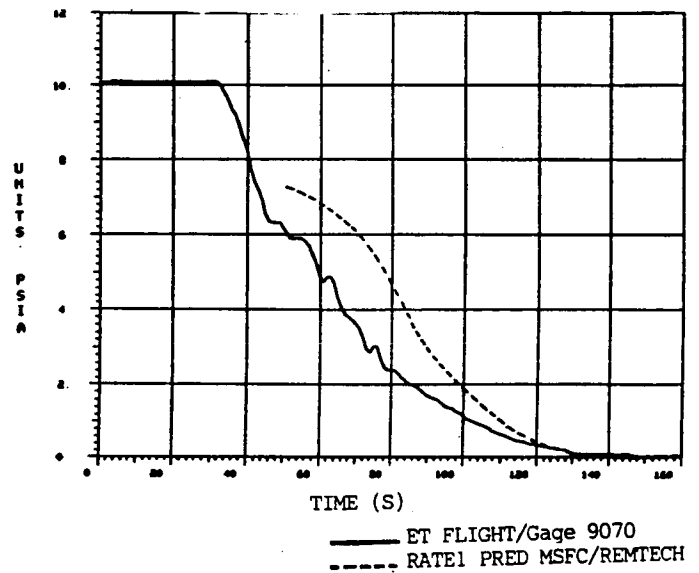
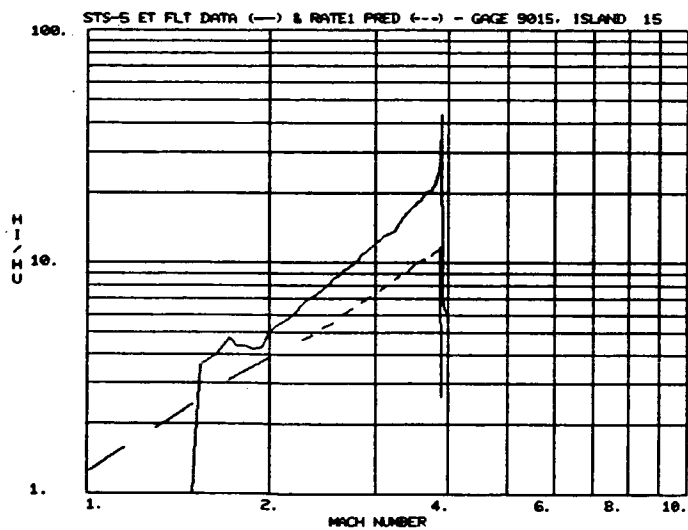
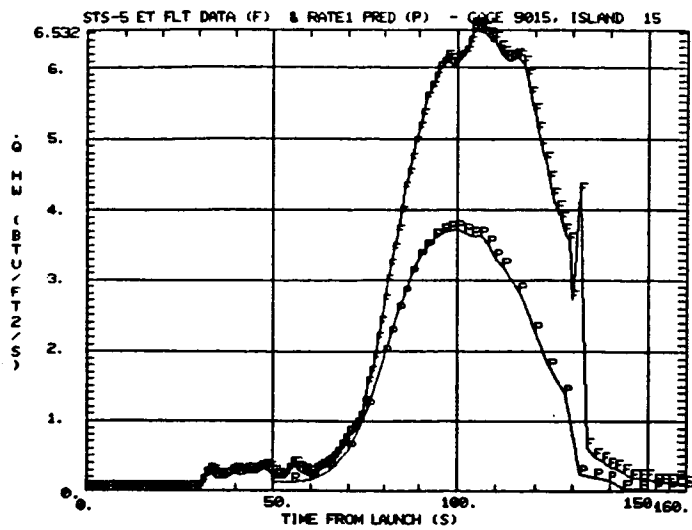


Fig. A.10e Aerothermal Analysis for GAGE 9015 in STS-5

REMTECH INC.

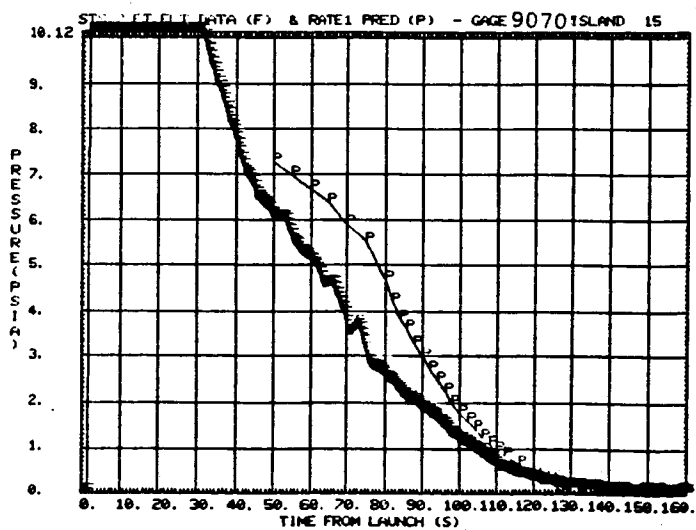
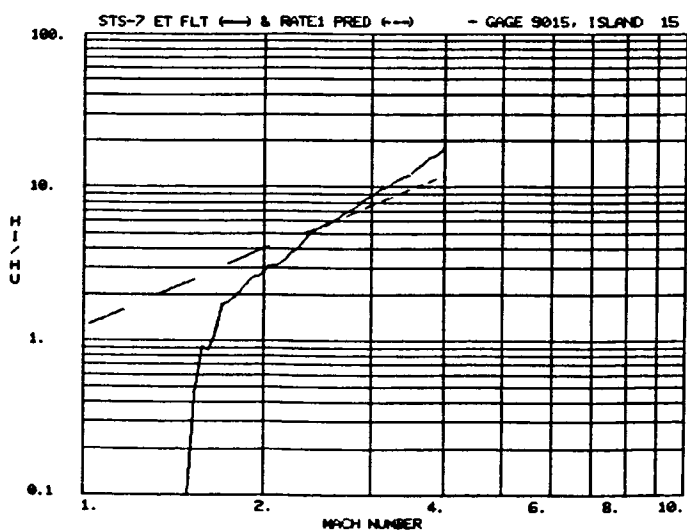
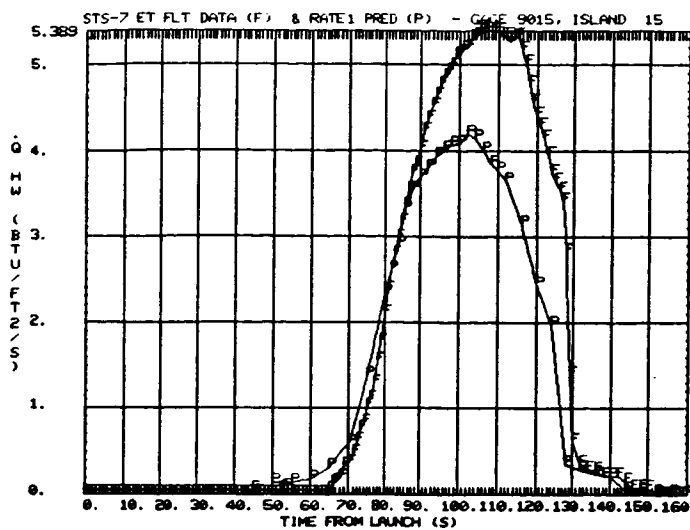


Fig. A.10f Aerothermal Analysis for Gage 9015 in STS-7

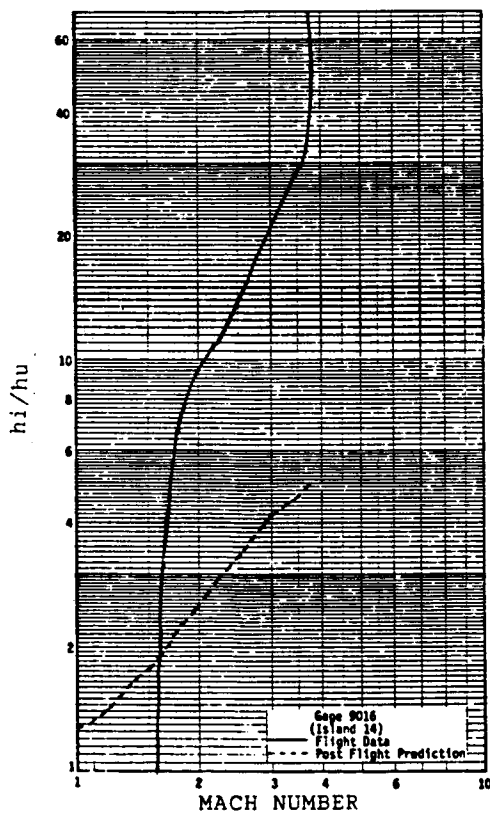
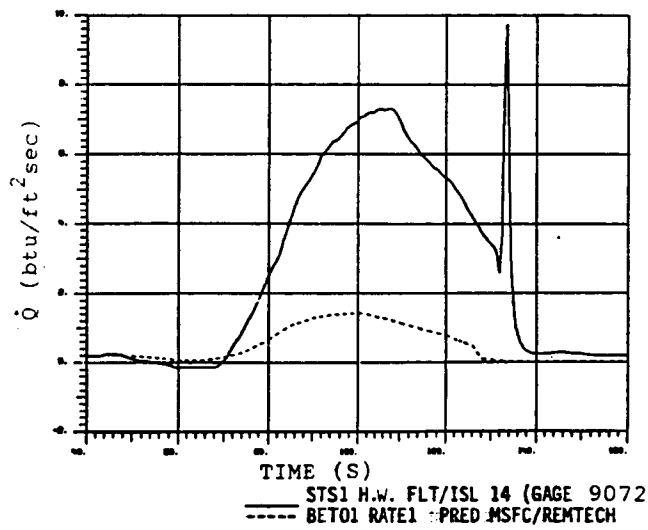


Fig. A.11a Aerothermal Analysis for Gage 9016 in STS-1

REMTECH INC.

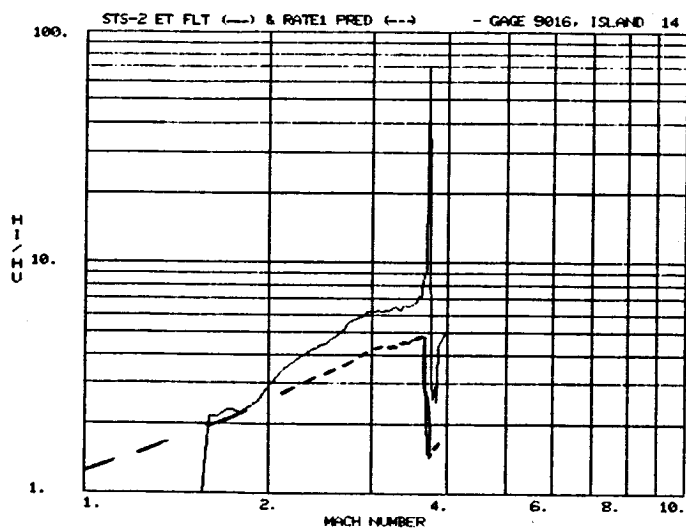
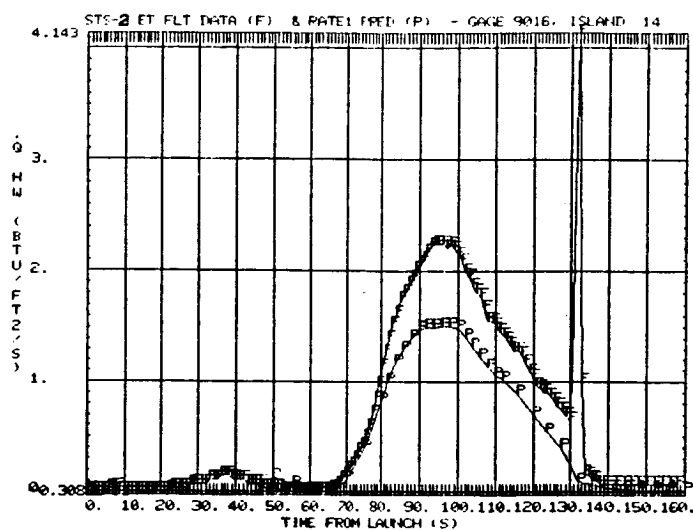


Fig. A.11b Aerothermal Analysis for Gage 9016 in STS-2

REMTECH INC.

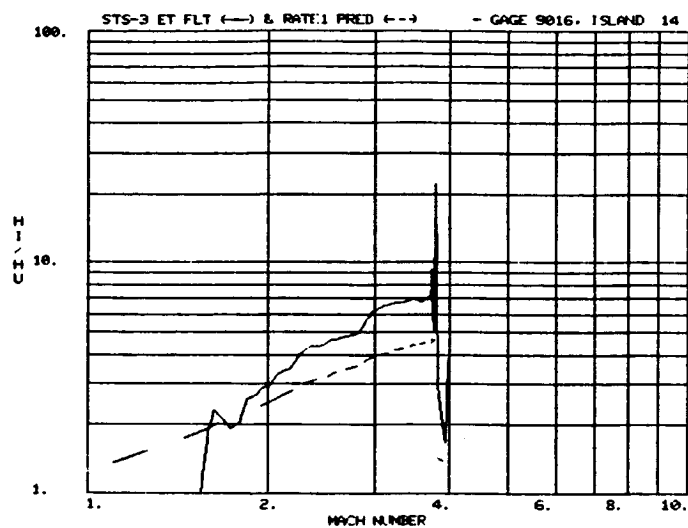
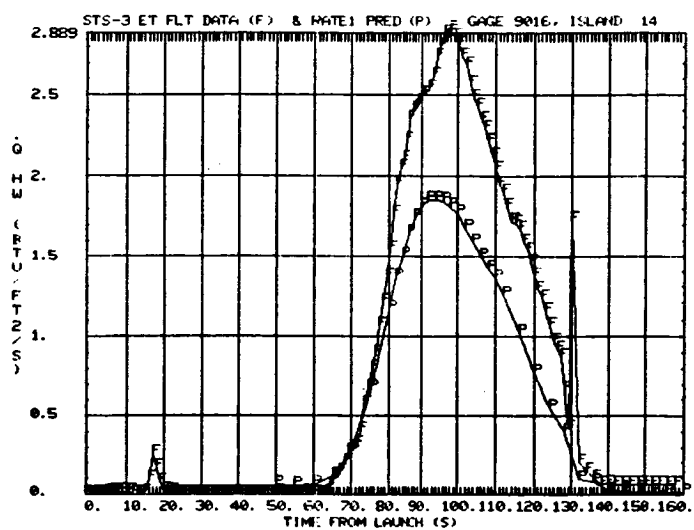


Fig. A.11c Aerothermal Analysis for Gage 9016 in STS-3

REMTECH INC.

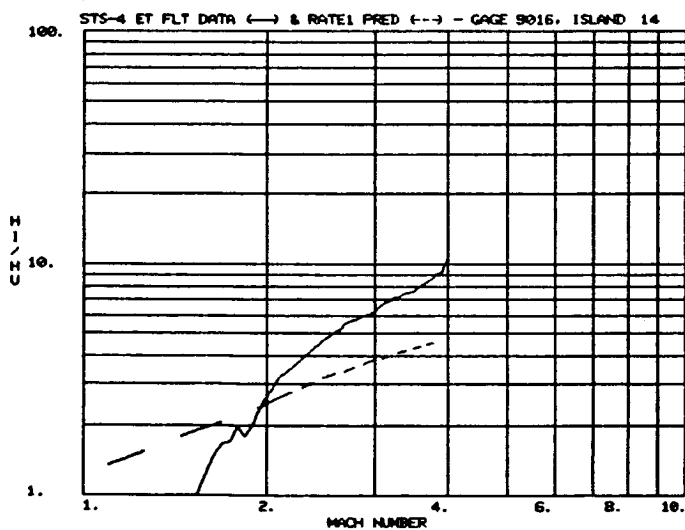
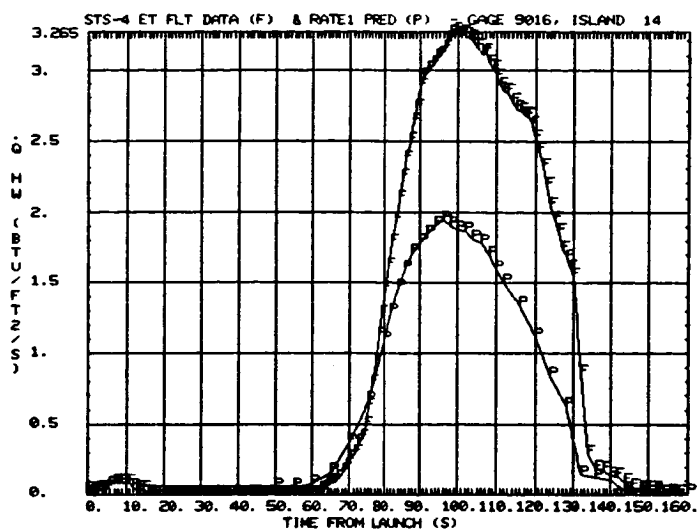


Fig. A.11d Aerothermal Analysis for Gage 9016 in STS-4

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REMTECH INC.

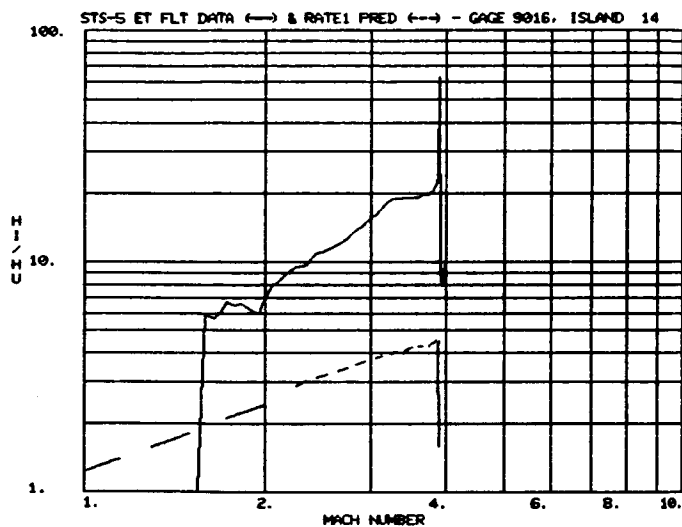
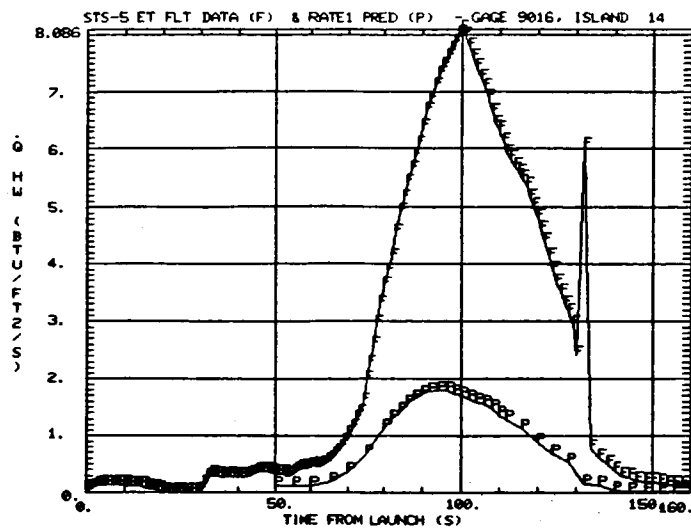


Fig. A.11e Aerothermal Analysis for GAGE 9016 in STS-5

REMTECH INC.

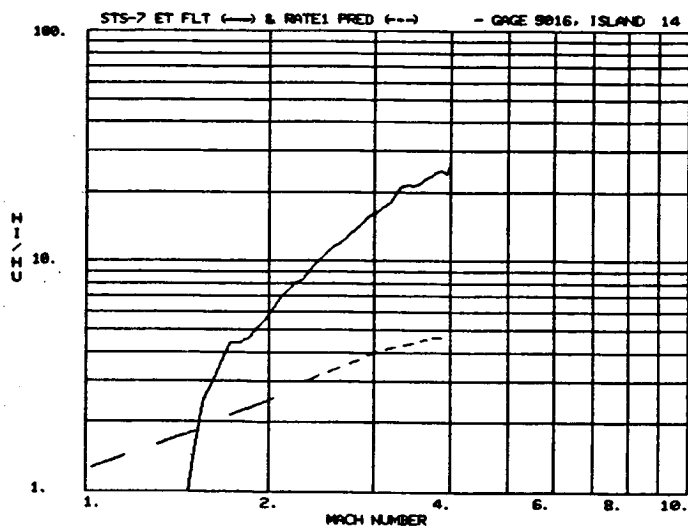
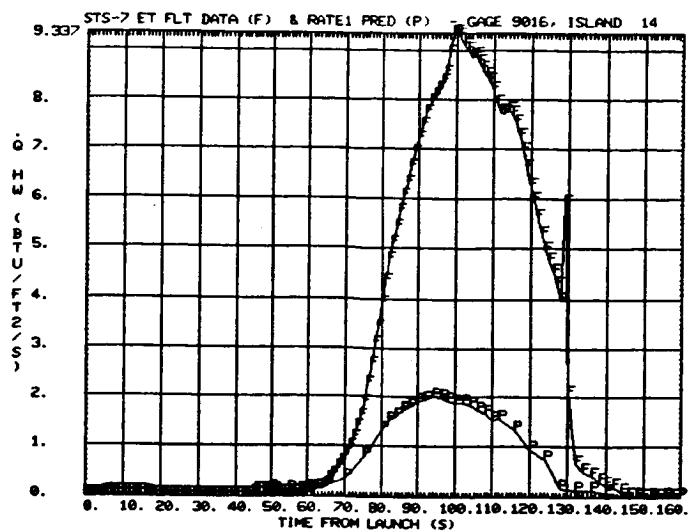


Fig. A.11f Aerothermal Analysis for Gage 9016 in STS-7

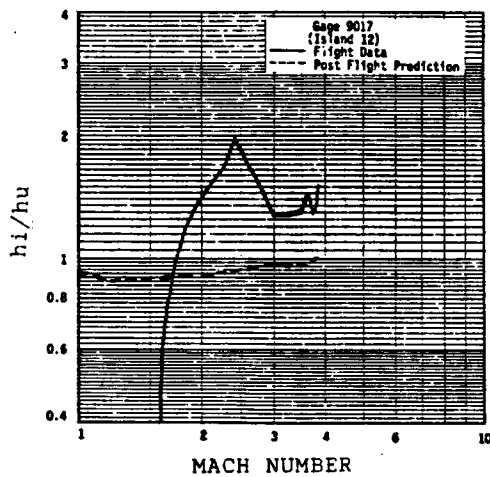
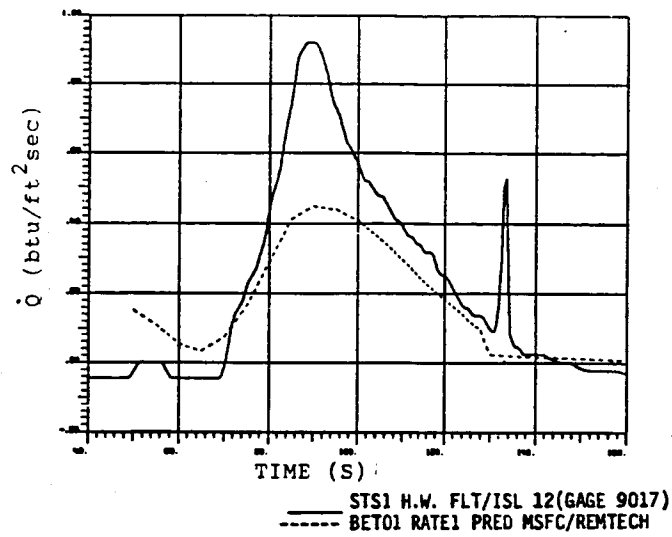


Fig. A.12a Aerothermal Analysis for Gage 9017 in STS-1

REMTECH INC.

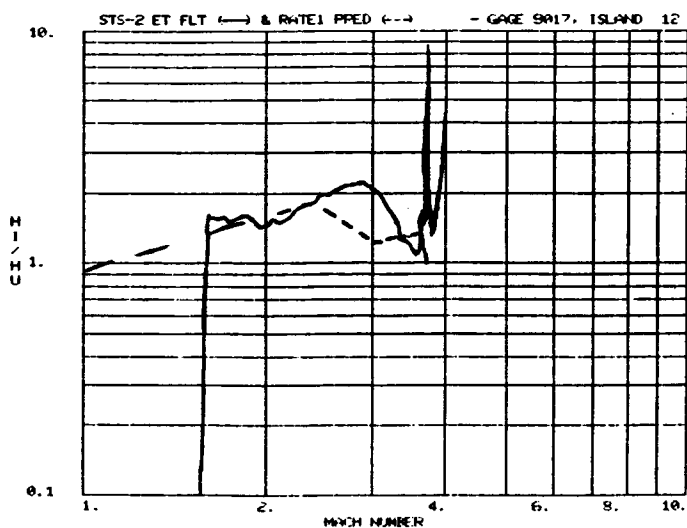
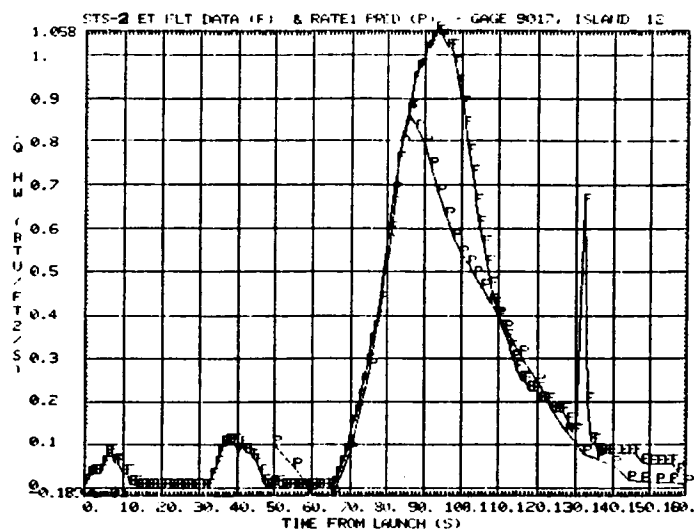


Fig. A.12b Aerothermal Analysis for Gage 9017 in STS-2

REMTECH INC.

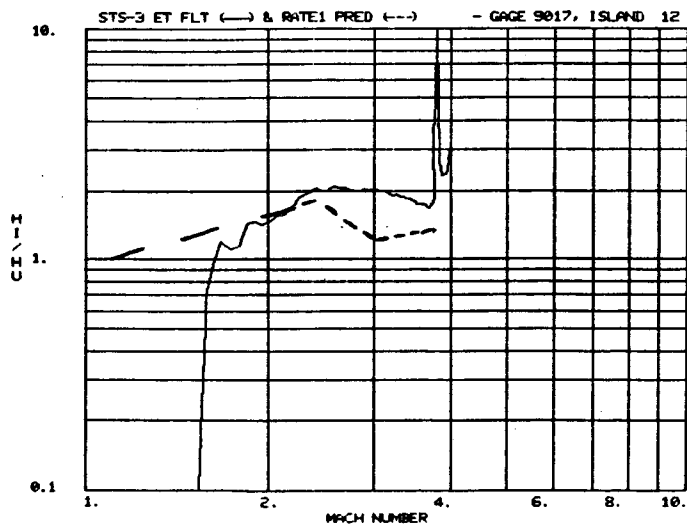
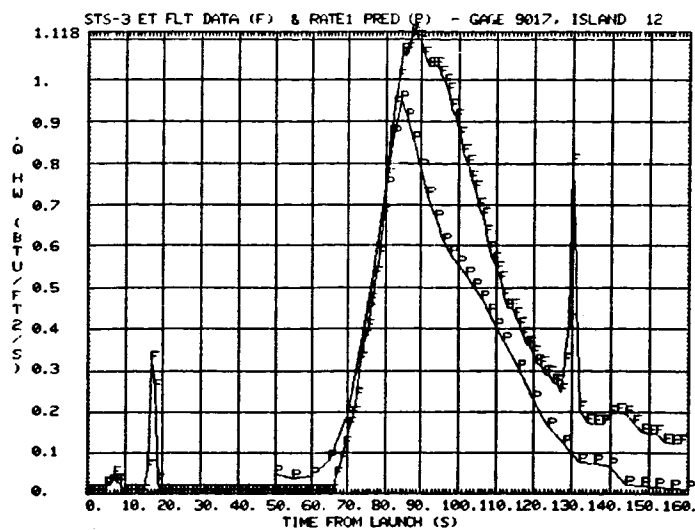


Fig. A.12c Aerothermal Analysis for Gage 9017 in STS-3

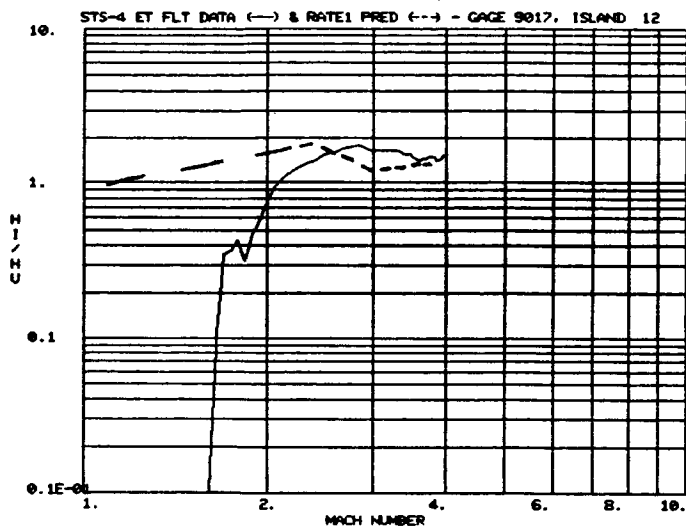
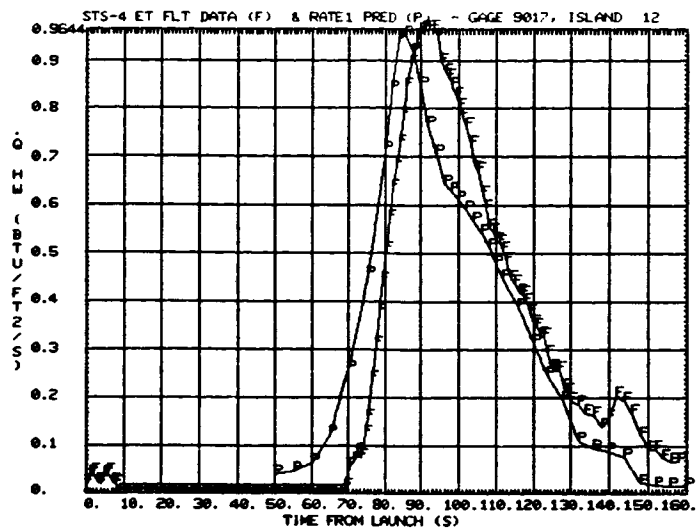


Fig. A.12d Aerothermal Analysis for Gage 9017 in STS-4

REMTECH INC.

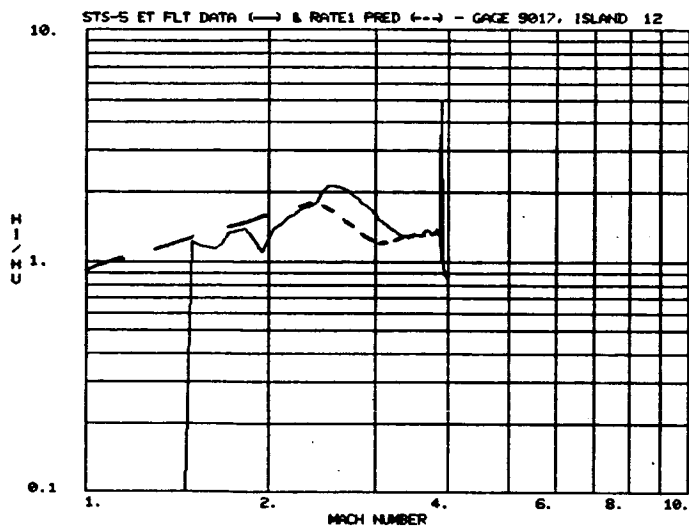
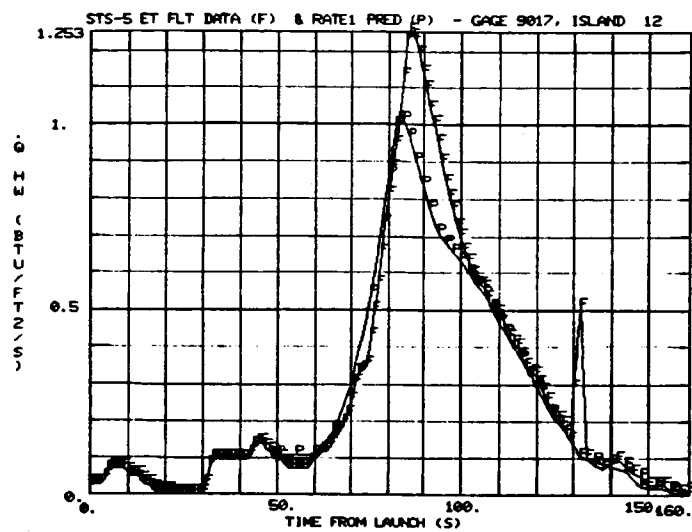


Fig. A.12e Aerothermal Analysis for Gage 9017 in STS-5

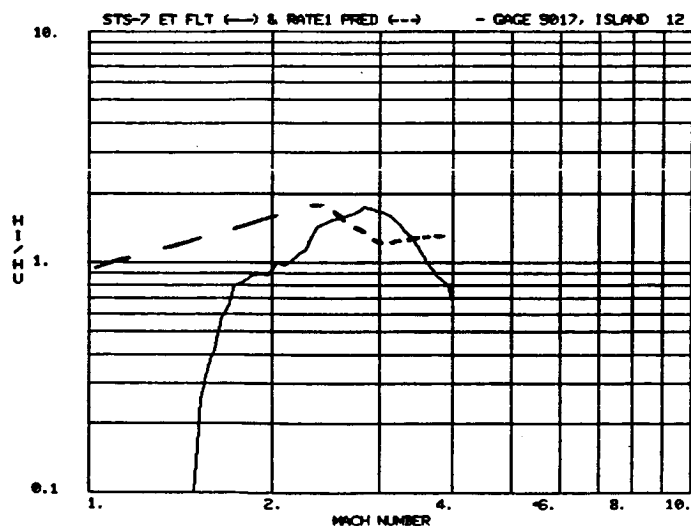
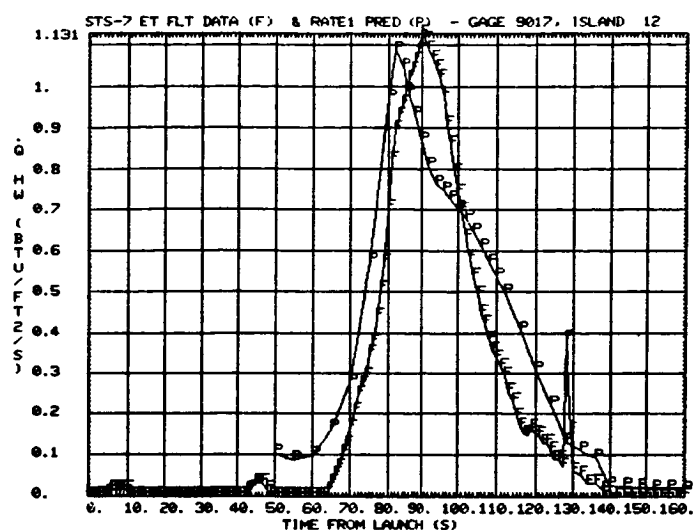


Fig. A.12f Aerothermal Analysis for Gage 9017 in STS-7

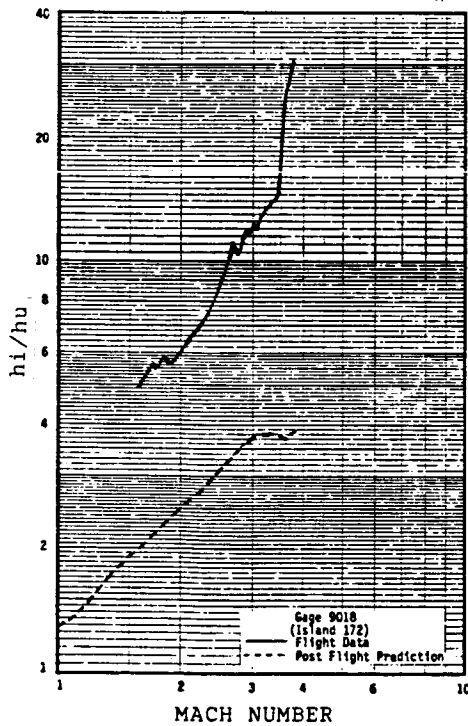
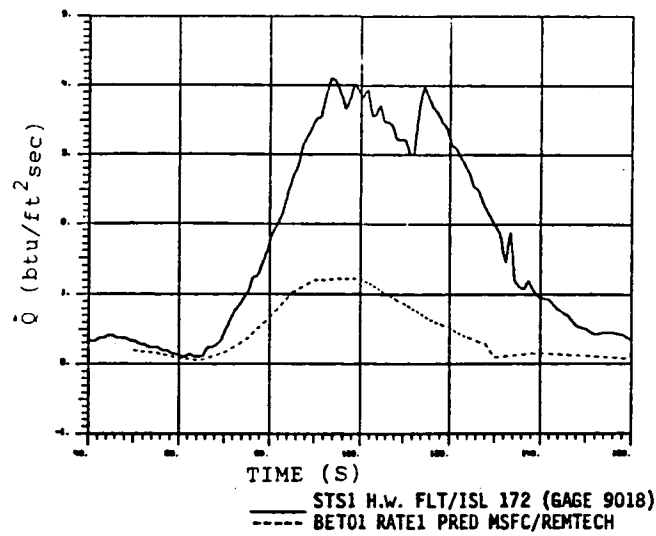


Fig. A.13a Aerothermal Analysis for Gage 9018 in STS-1

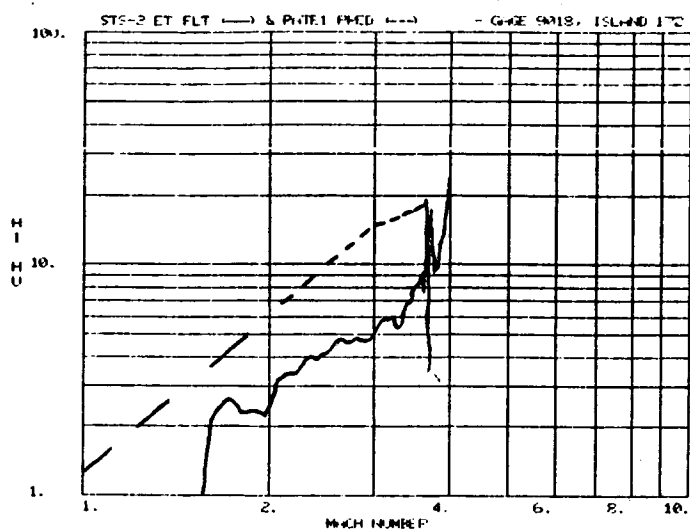
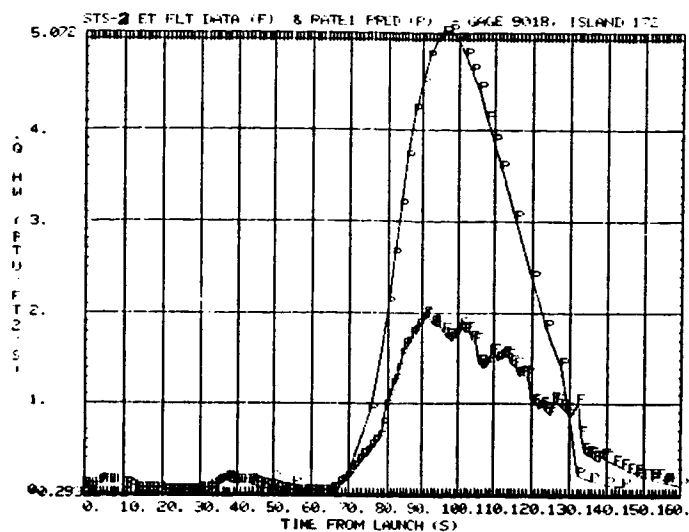


Fig. A.13b Aerothermal Analysis for Gage 9018 in STS-2

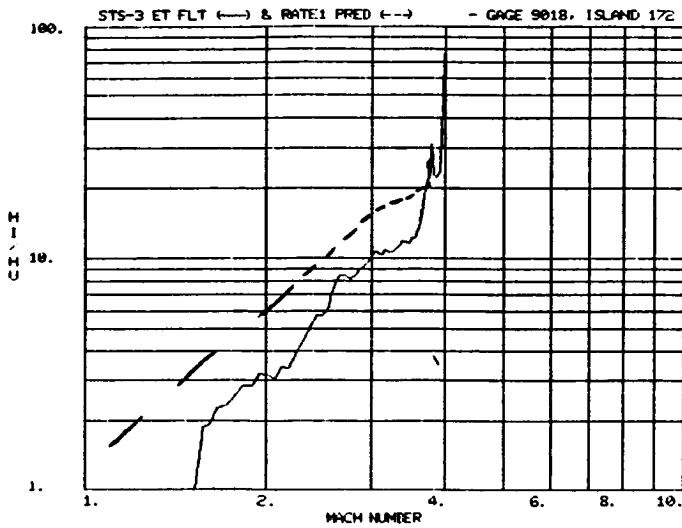
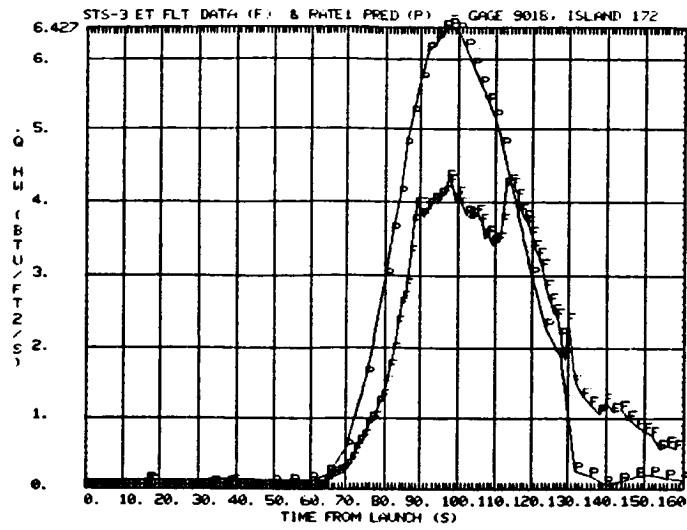


Fig. A.13c Aerothermal Analysis for Gage 9018 In STS-3

REMTECH INC.

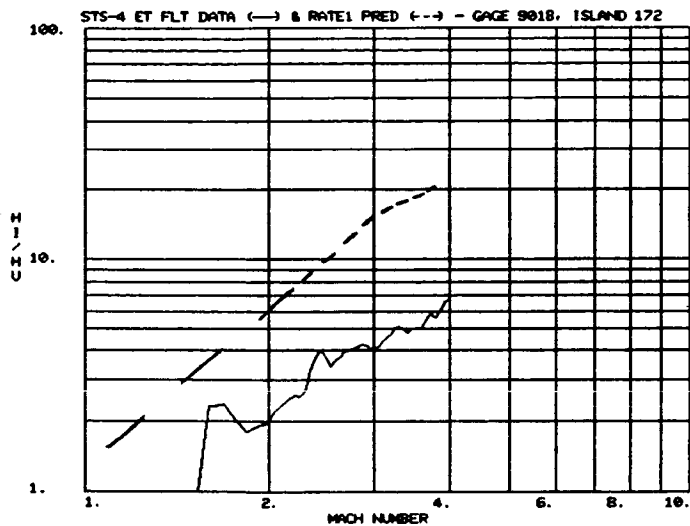
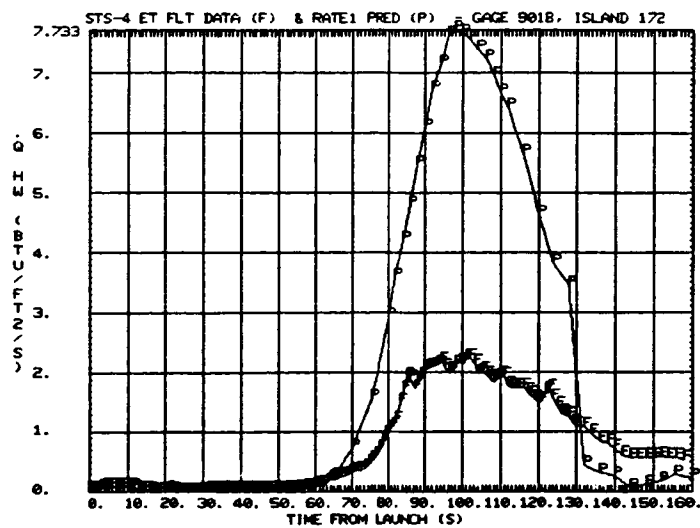


Fig. A.13d Aerothermal Analysis for Gage 9018 in STS-4

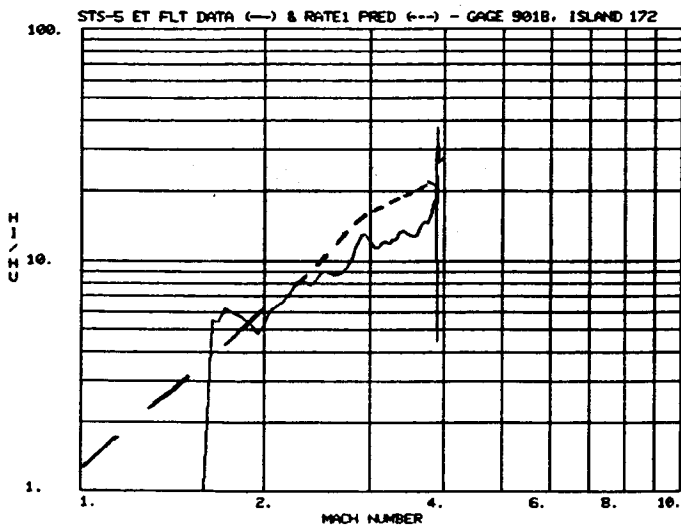
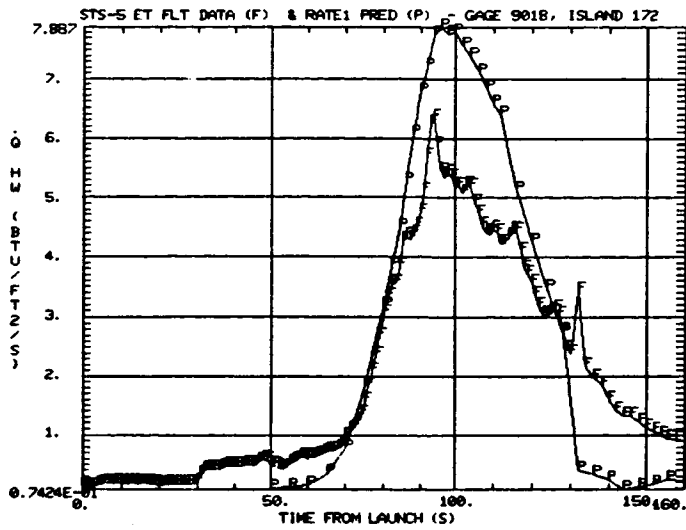


Fig. A.13e Aerothermal Analysis for Gage 9018 in STS-5

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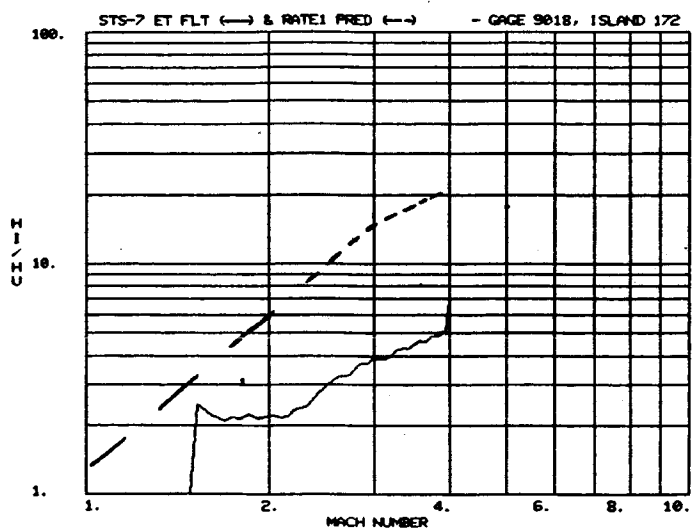
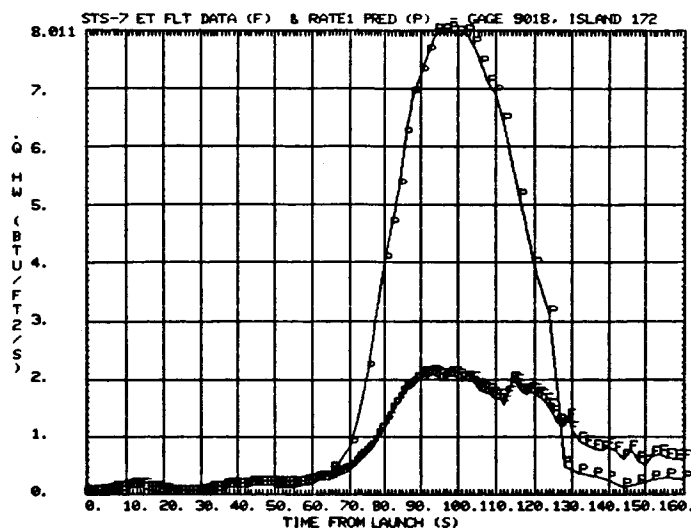


Fig. A.13f Aerothermal Analysis for Gage 9018 in STS-7

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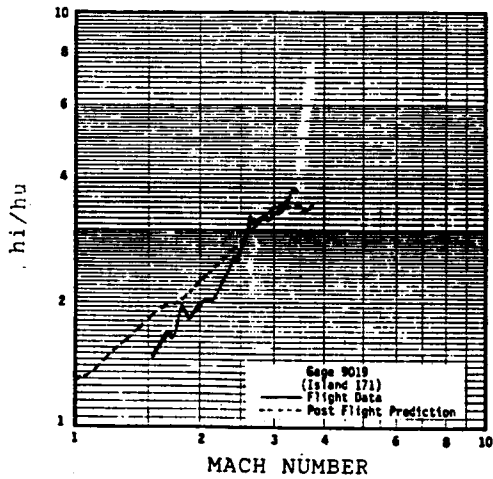
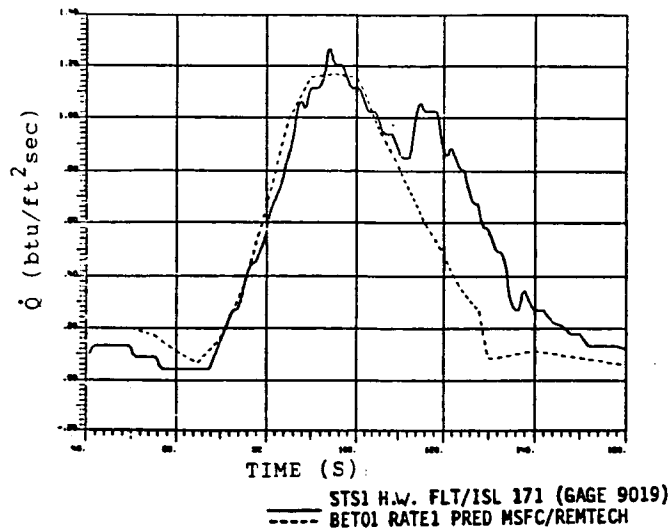


Fig. A.14a Aerothermal Analysis for Gage 9019 in STS-1

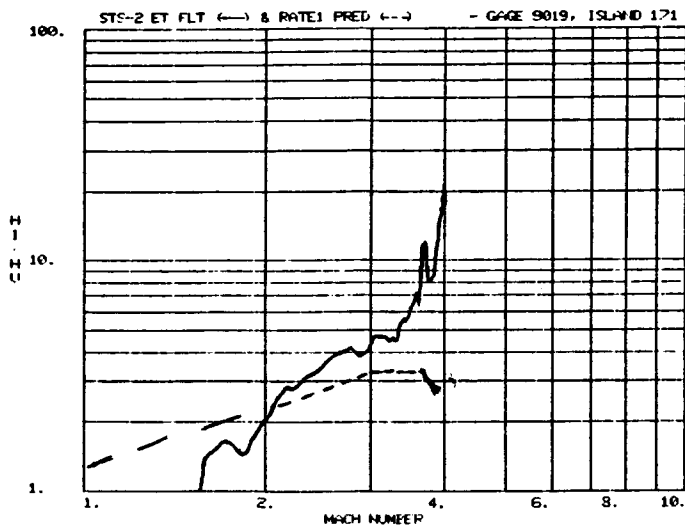
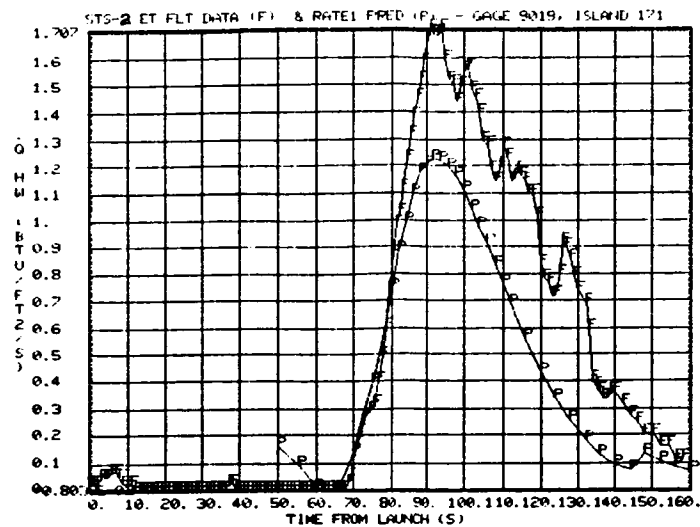


Fig. A.14b Aerothermal Analysis for Gage 9019 in STS-2

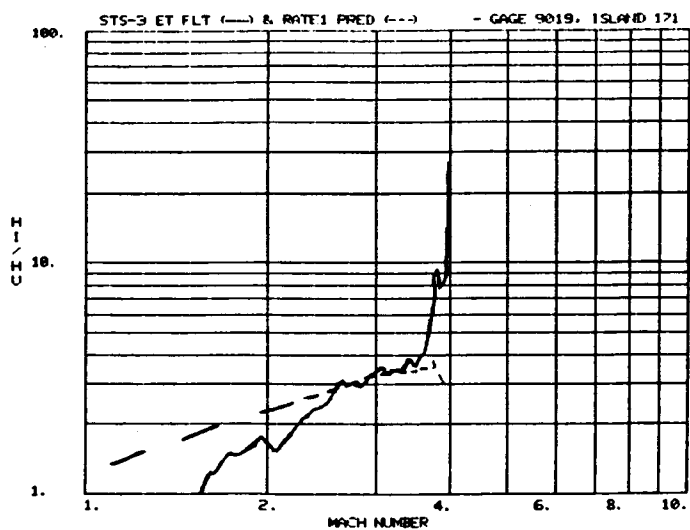
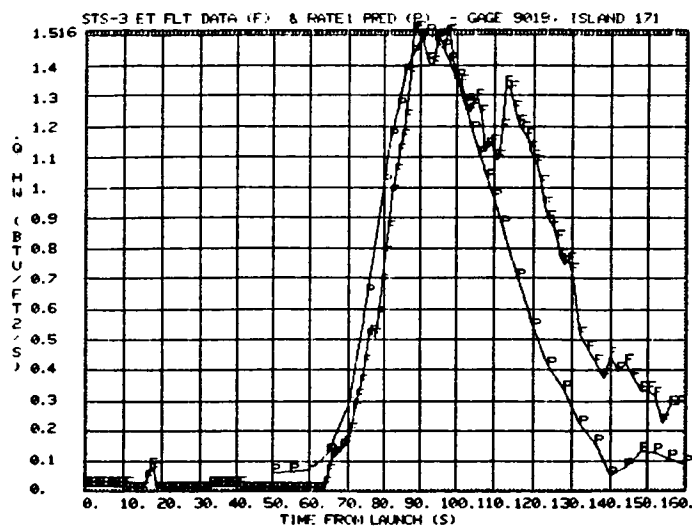


Fig. A.14c Aerothermal Analysis for Gage 9019 in STS-3

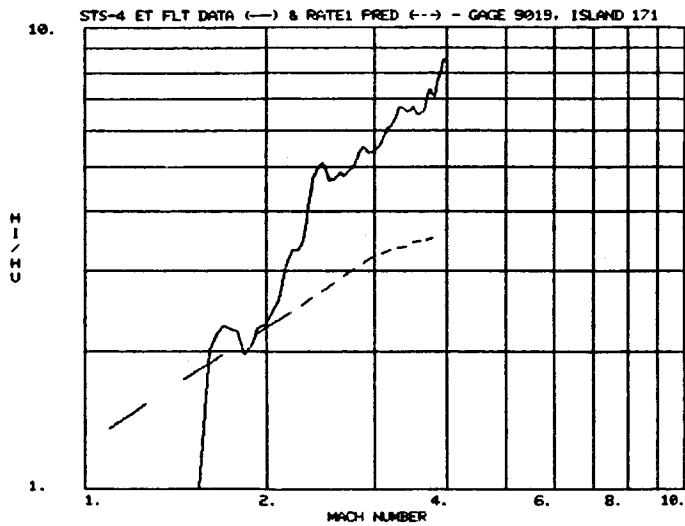
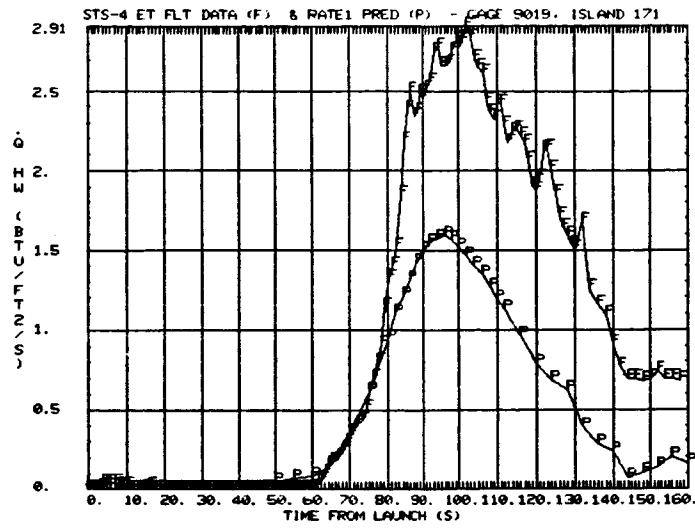


Fig. A.14d Aerothermal Analysis for Gage 9019 in STS-4

REMTECH INC.

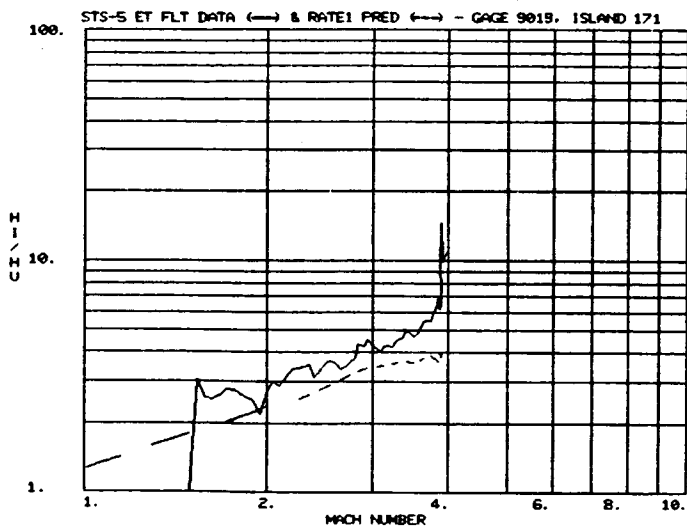
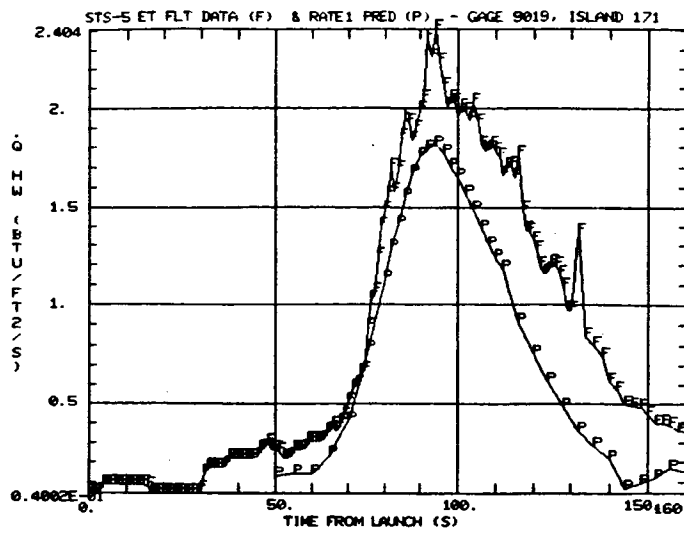


Fig. A.14e Aerothermal Analysis for Gage 9019 in STS-5

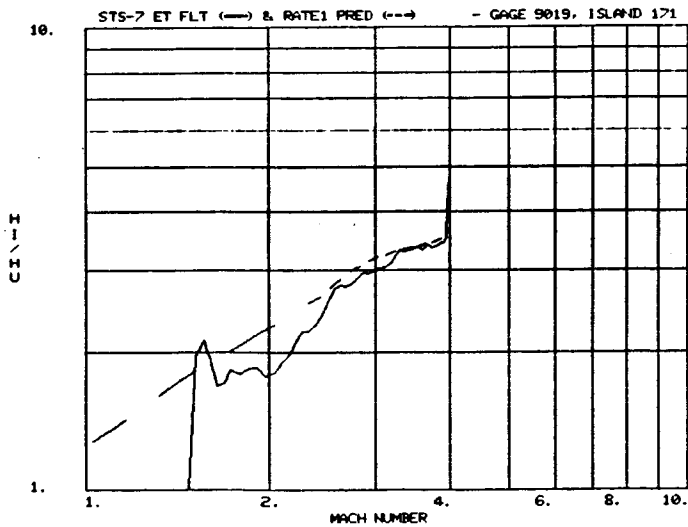
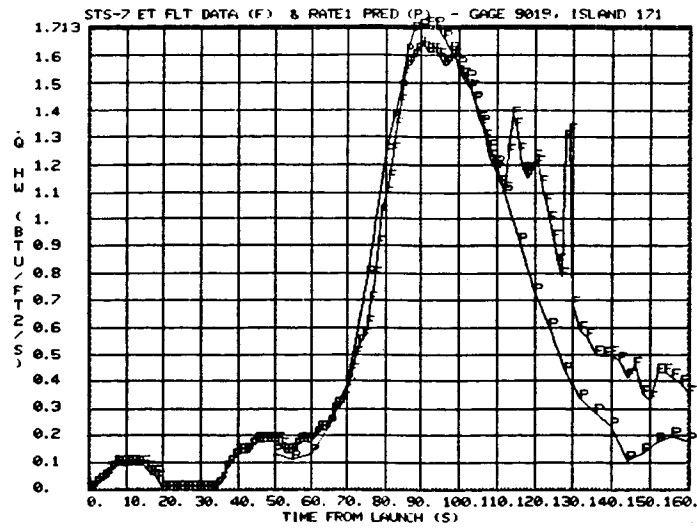


Fig. A.14f Aerothermal Analysis for Gage 9019 In STS-7

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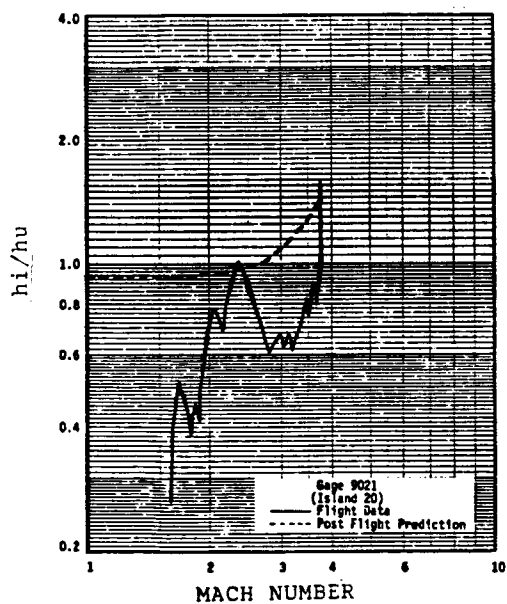
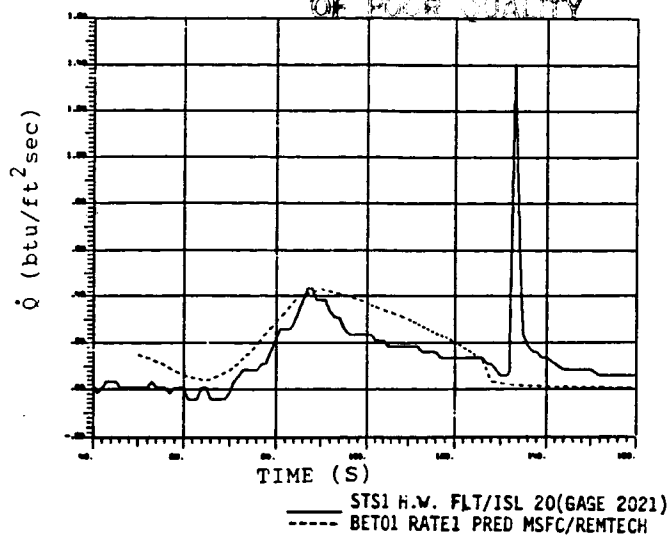


Fig. A.15a Aerothermal Analysis for Gage 9021 in STS-1

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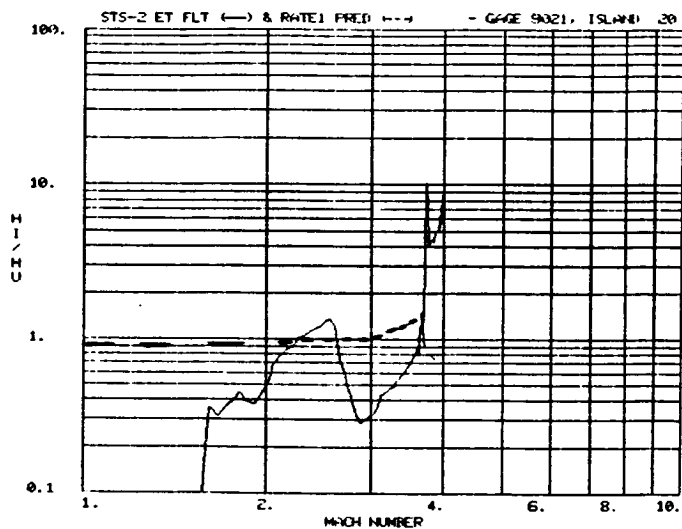
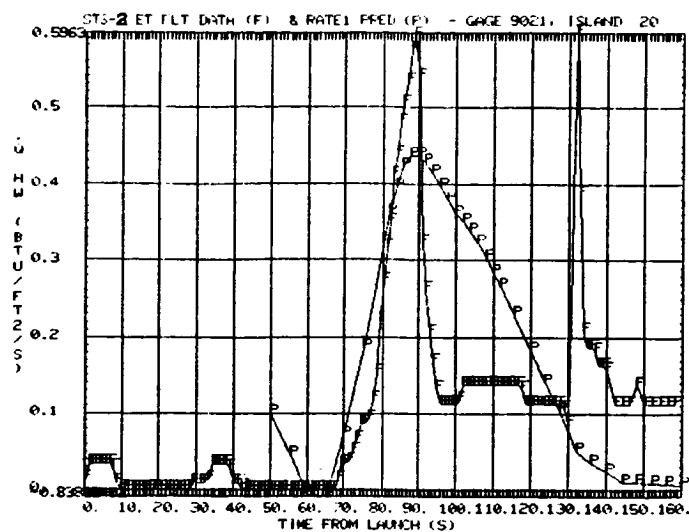


Fig. A.15b Aerothermal Analysis for Gage 9021 in STS-2

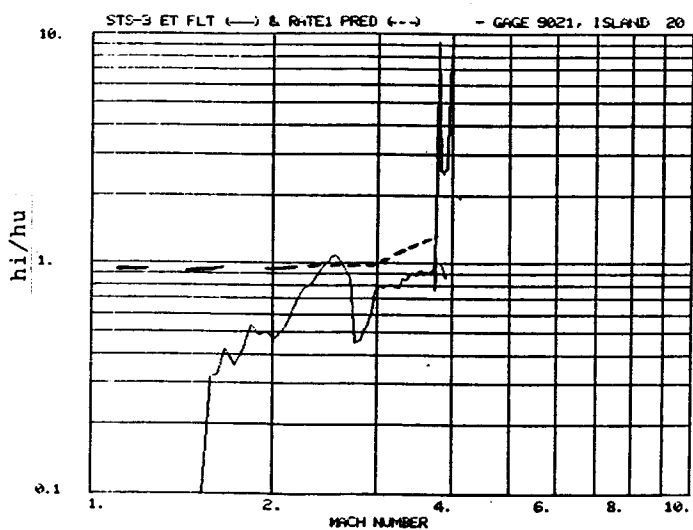
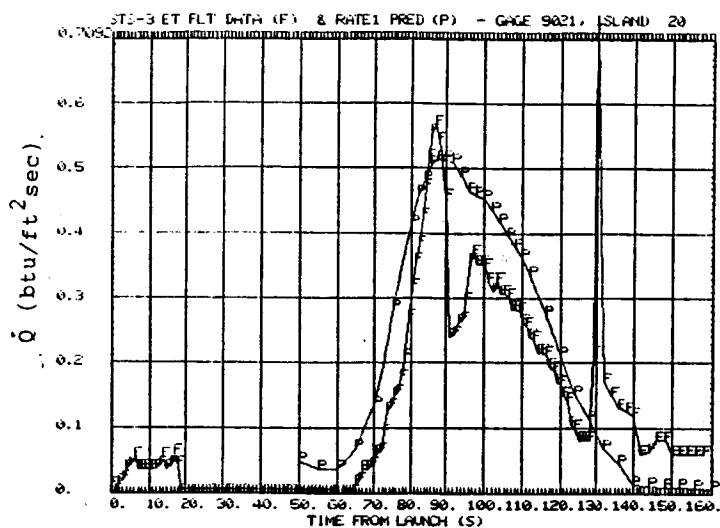


Fig. A.15c Aerothermal Analysis for Gage 9021 in STS-3

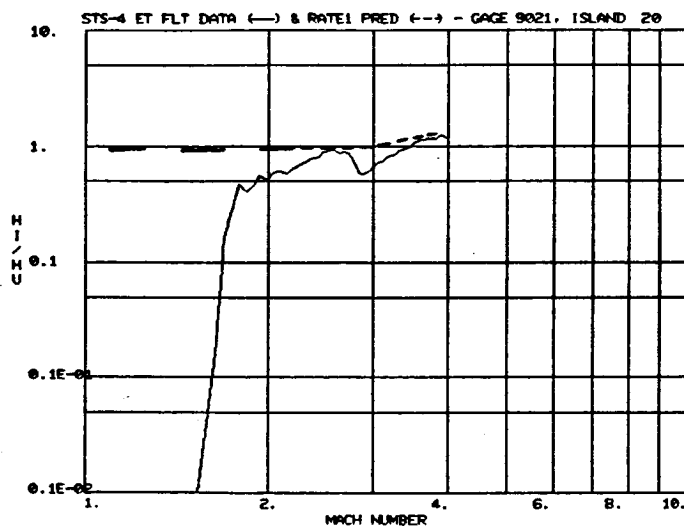
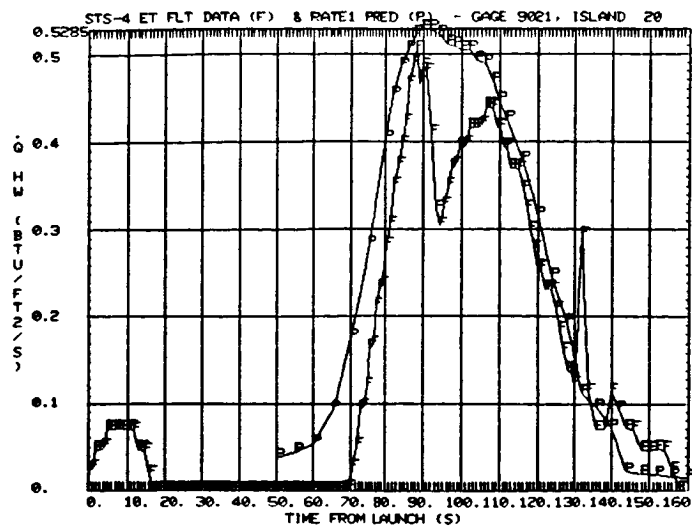


Fig. A.15d Aerothermal Analysis for Gage 9021 in STS-4

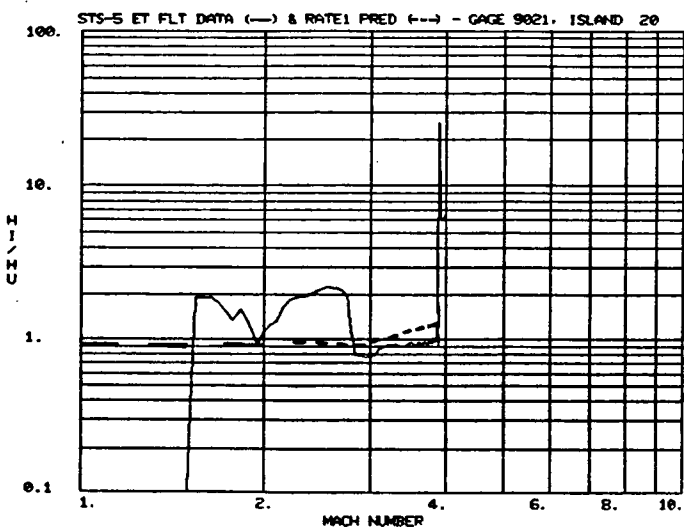
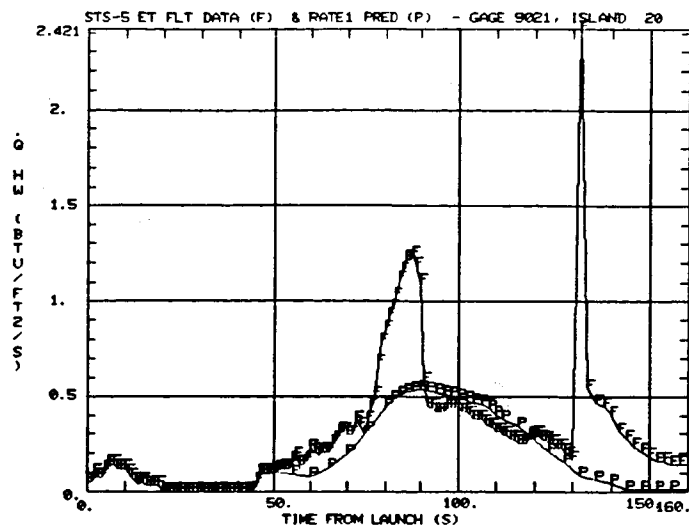


Fig. A.15e Aerothermal Analysis for Gage 9021 in STS-5

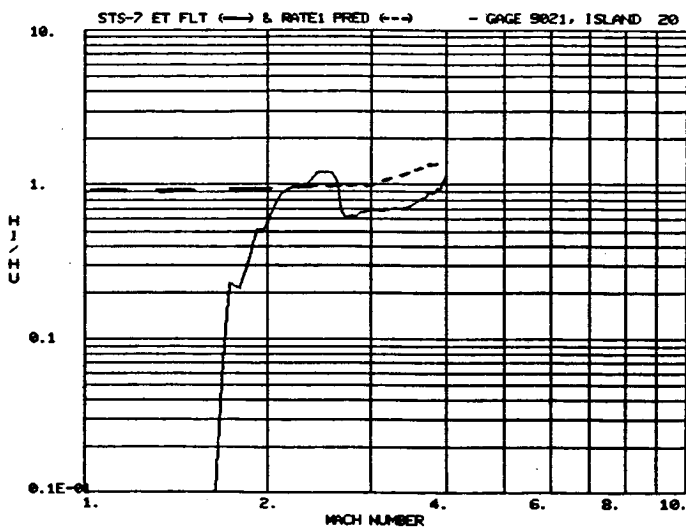
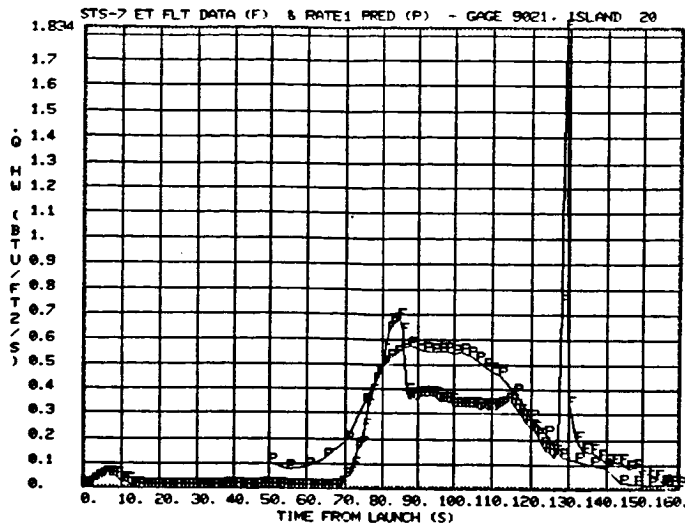
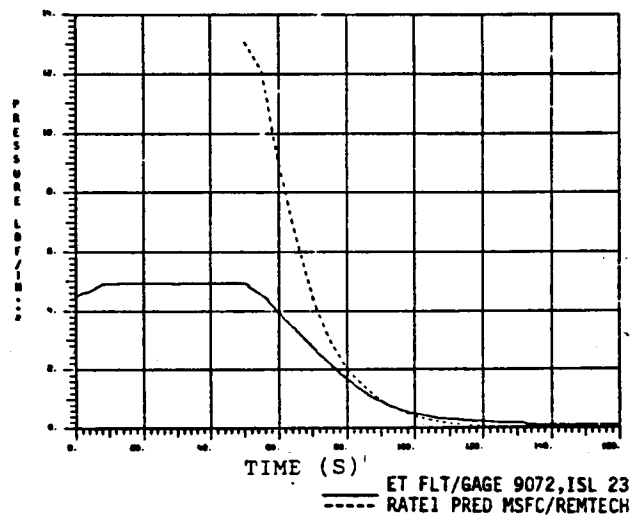
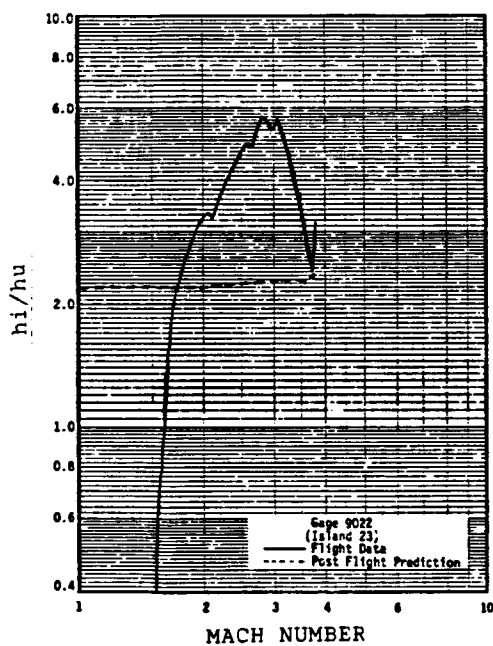
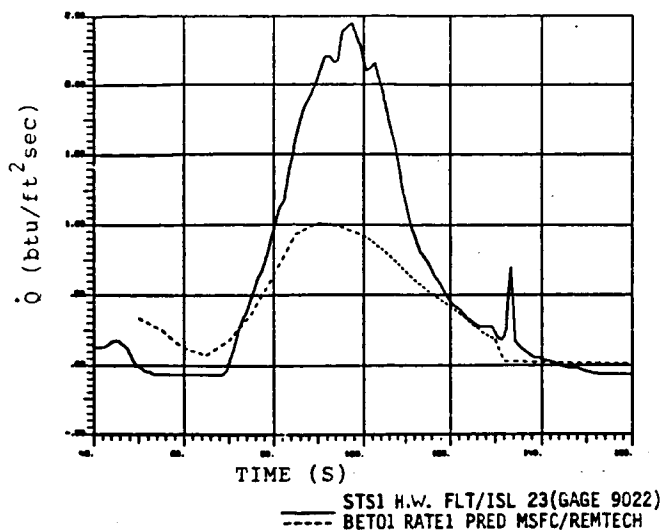


Fig. A.15f Aerothermal Analysis for Gage 9021 in STS-7



NOTE:
● Bad Pressure Measurements

Fig. A.16a Aerothermal Analysis for Gage 9022 in STS-1

REMTECH INC.

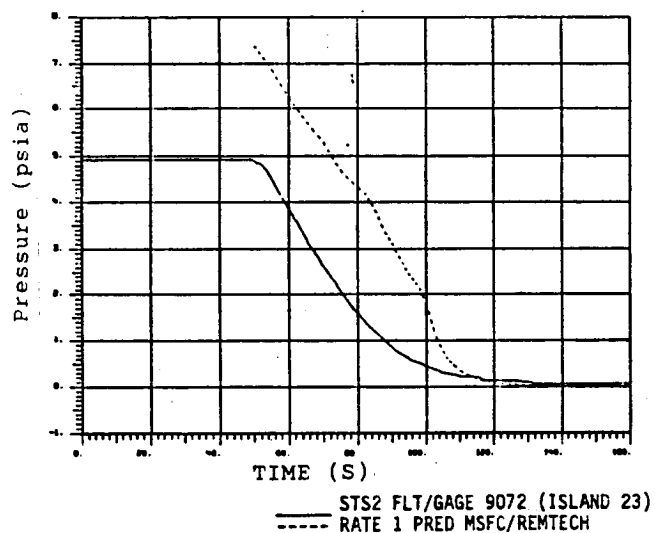
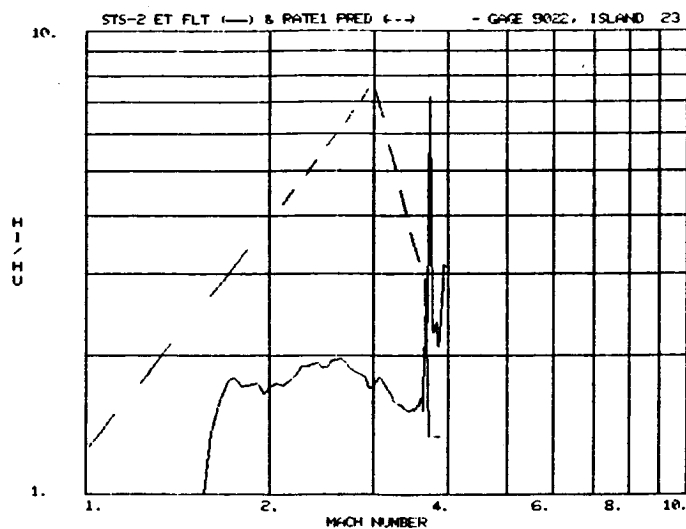
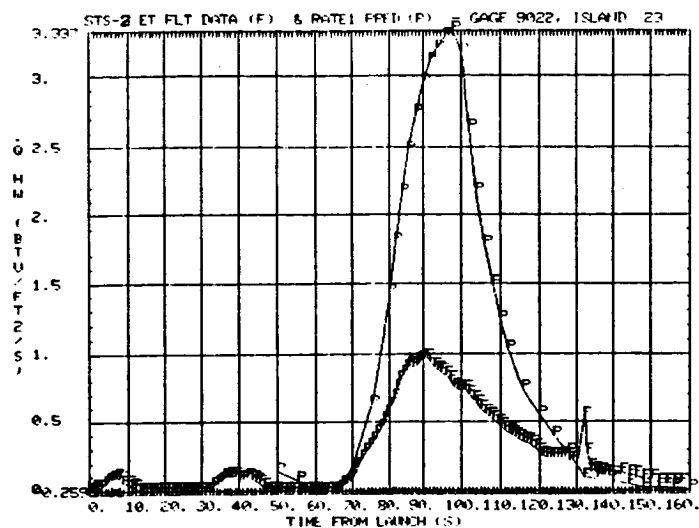


Fig. A.16b Aerothermal Analysis for Gage 9022 in STS-2

REMTECH INC.

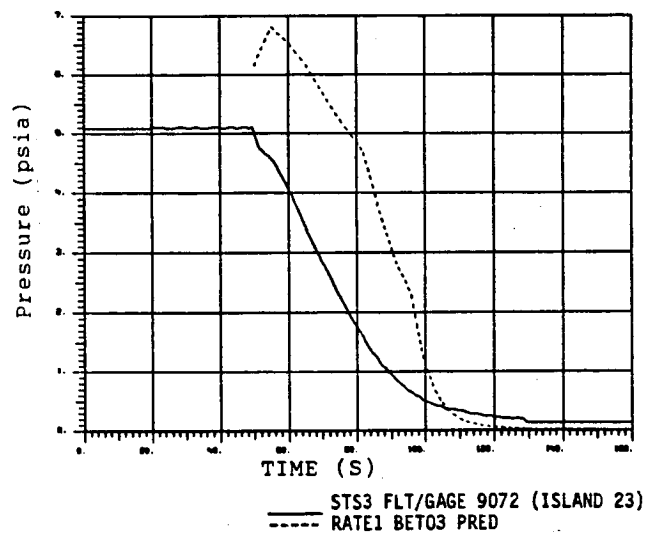
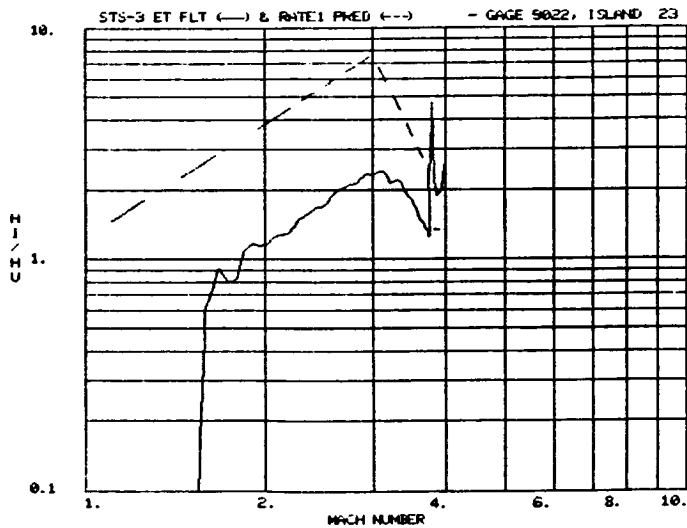
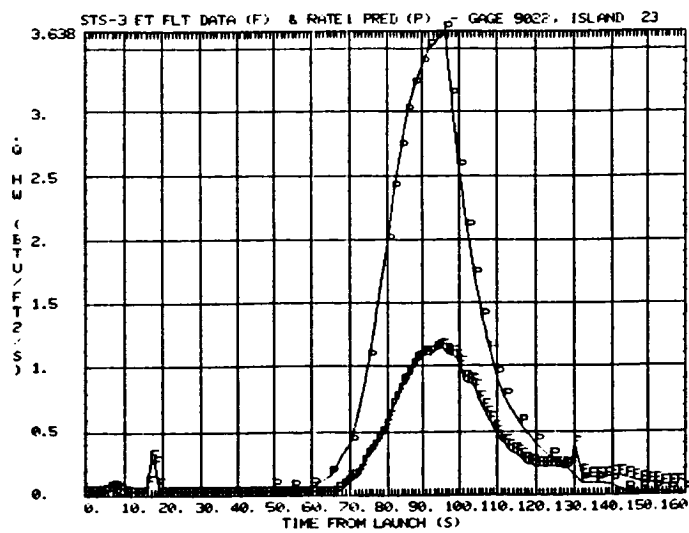


Fig. A.16c Aerothermal Analysis for Gage 9022 in STS-3

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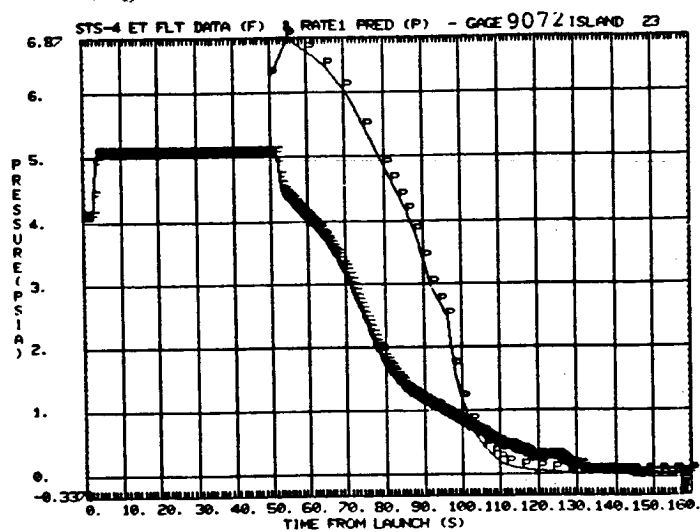
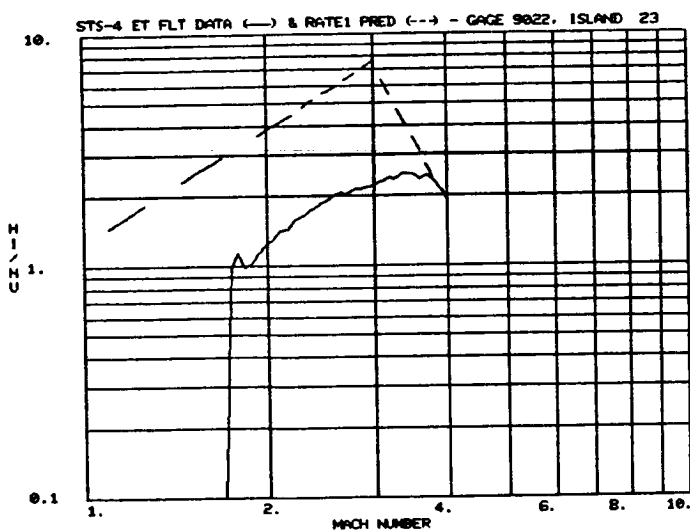
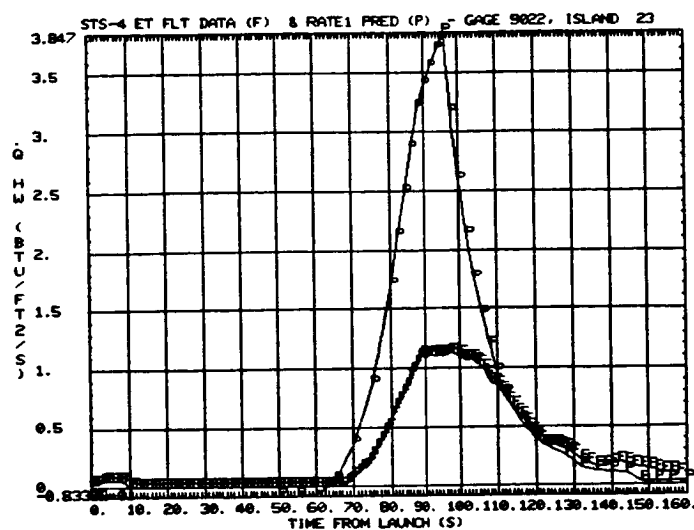


Fig. A.16d Aerothermal Analysis for Gage 9022 in STS-4

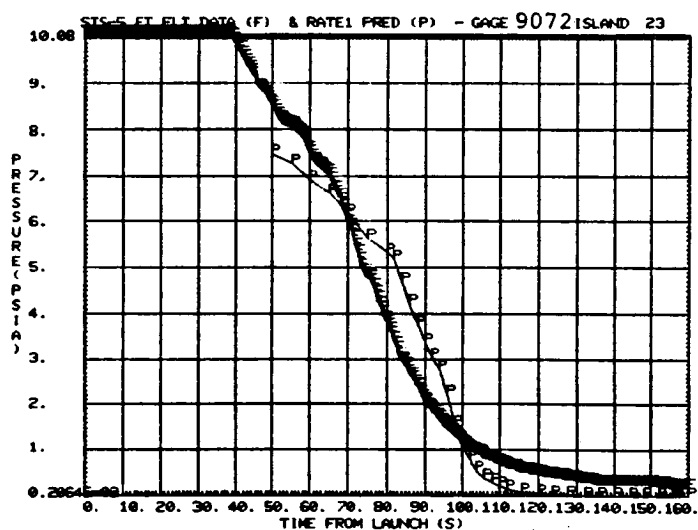
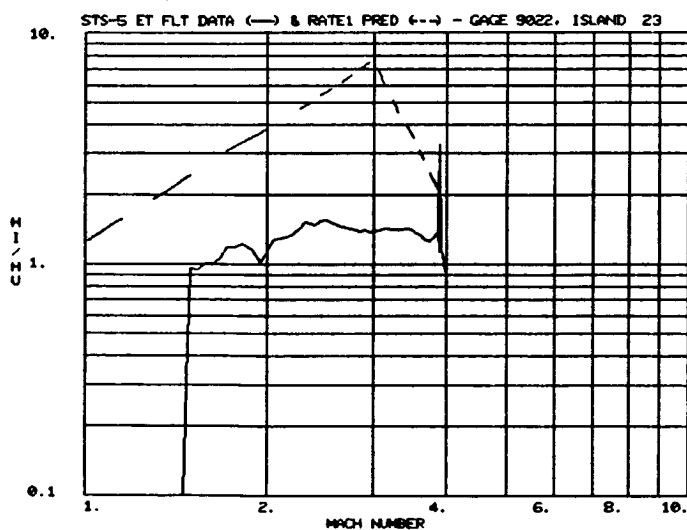
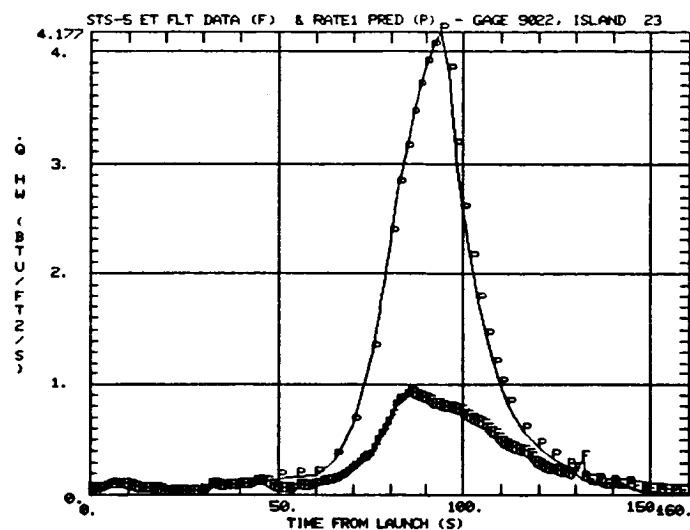


Fig. A.16e Aerothermal Analysis for Gage 9022 in STS-5

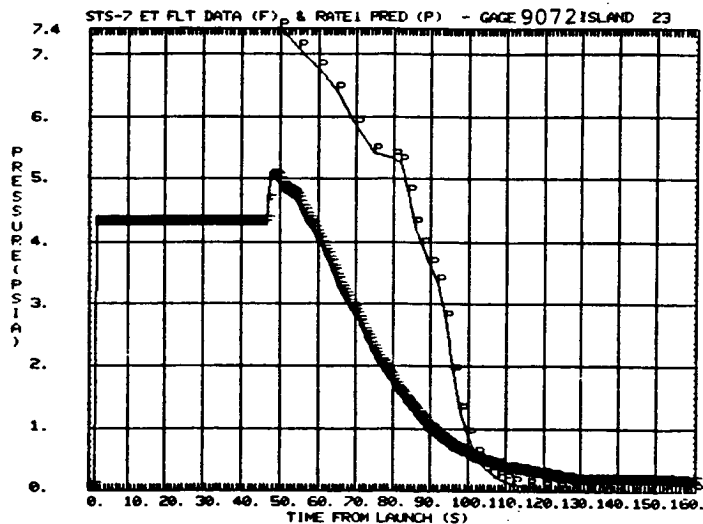
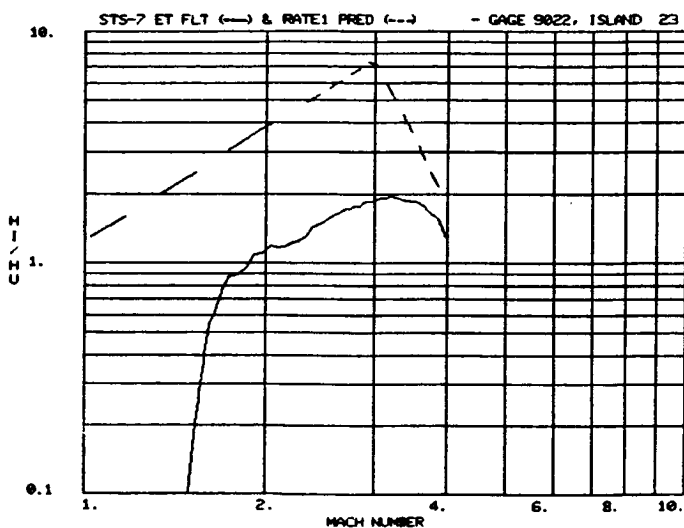
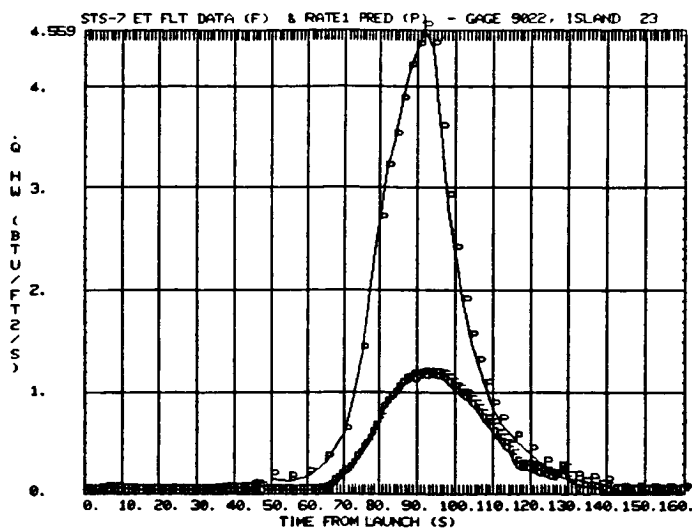


Fig. A.16f Aerothermal Analysis for Gage 9022 in STS-7

REMTECH INC.

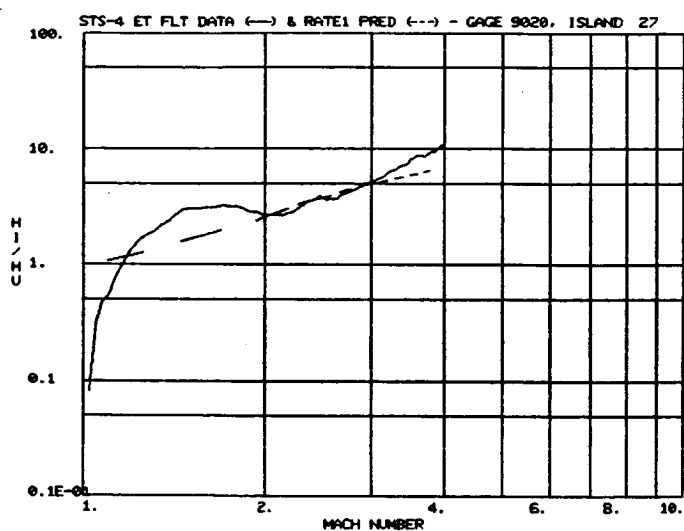
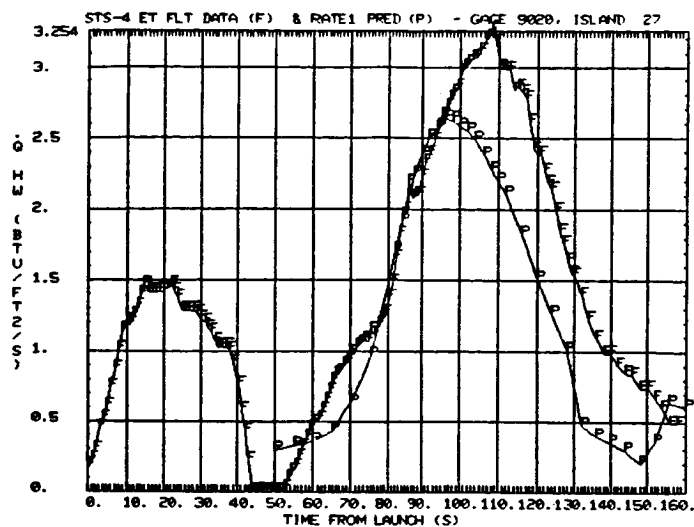


Fig. A.17a Aerothermal Analysis for Gage 9020 in STS-4

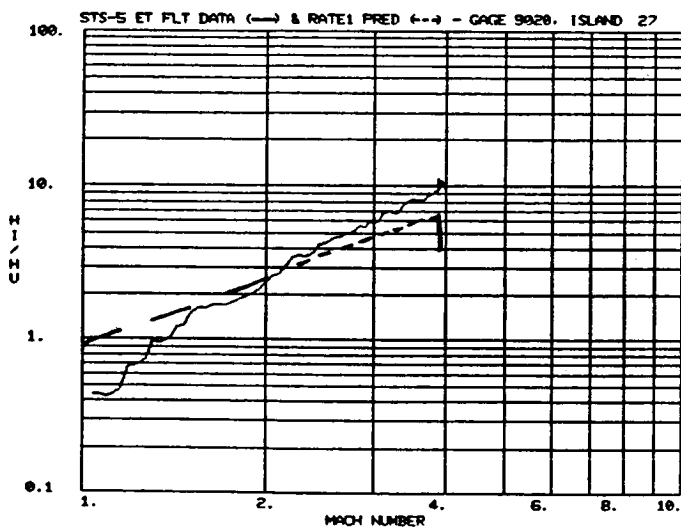
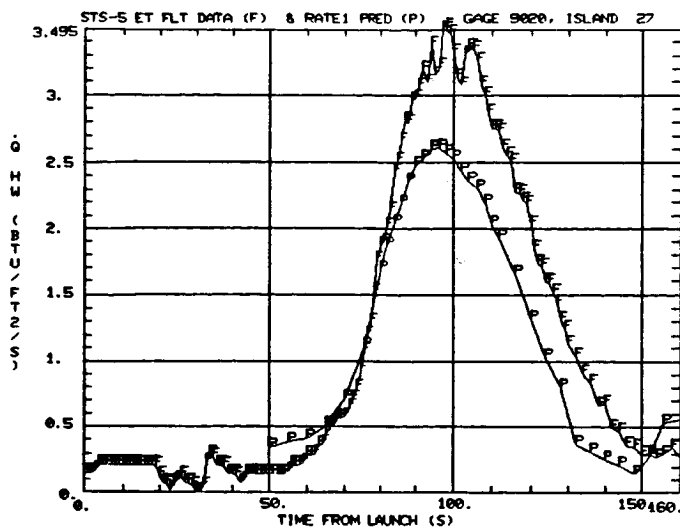


Fig. A.17b Aerothermal Analysis for Gage 9020 in STS-5

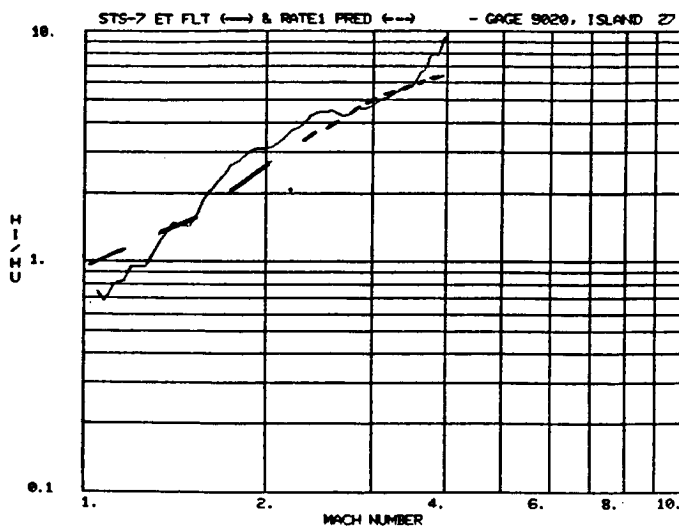
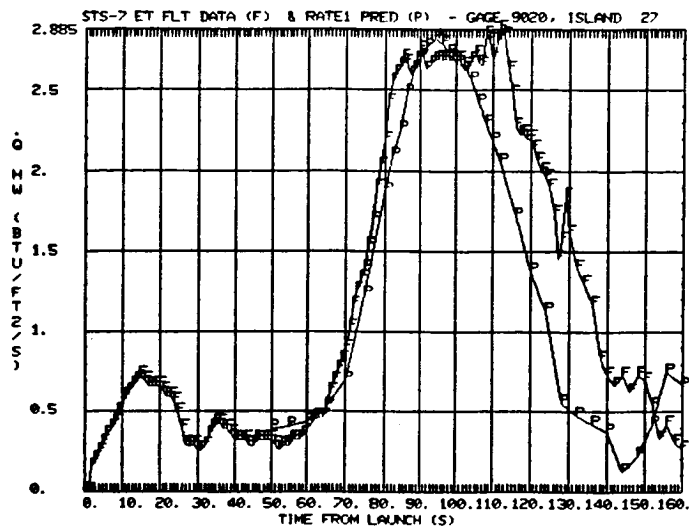


Fig. A.17c Aerothermal Analysis for Gage 9020 in STS-7

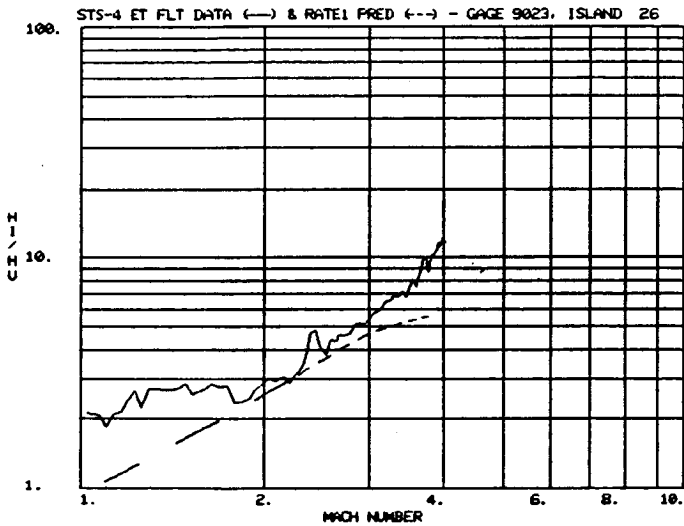
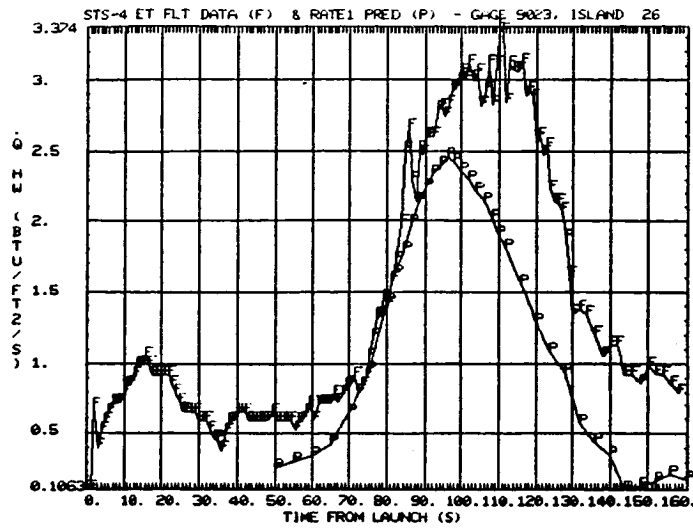


Fig. A.18a Aerothermal Analysis for GAGE 9023 in STS-4

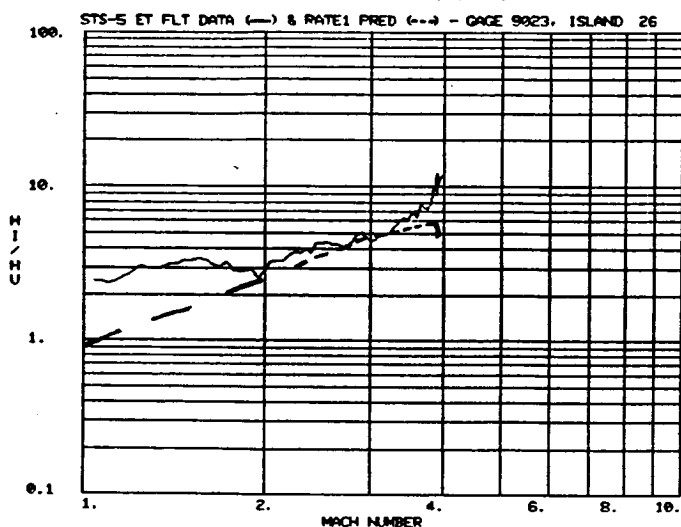
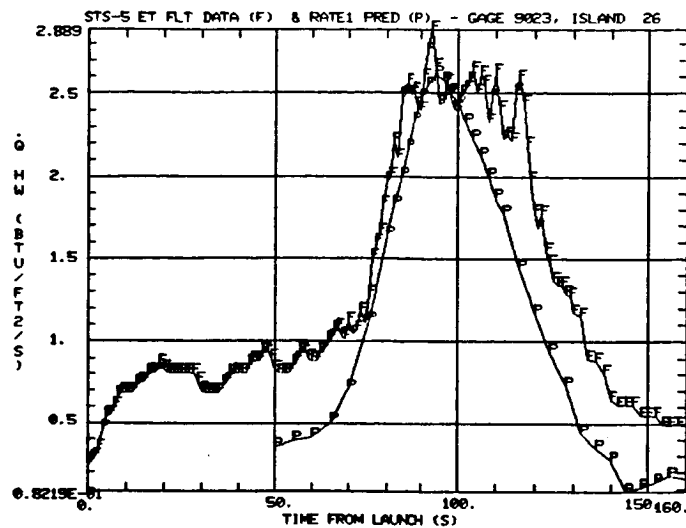


Fig. A.18b Aerothermal Analysis for GAGE 9023 in STS-5

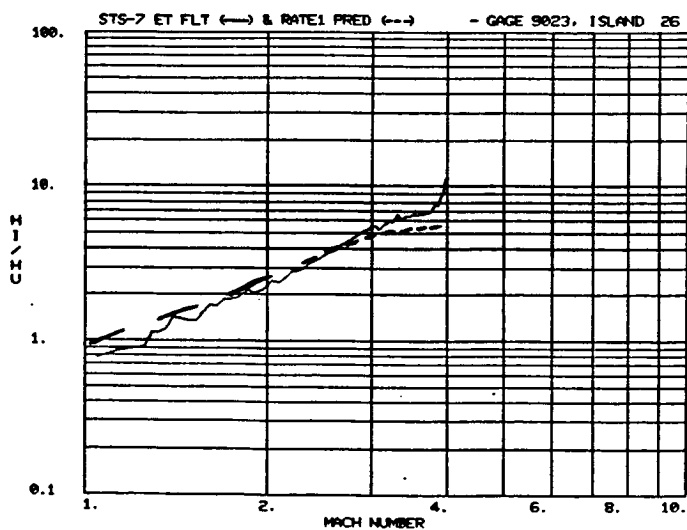
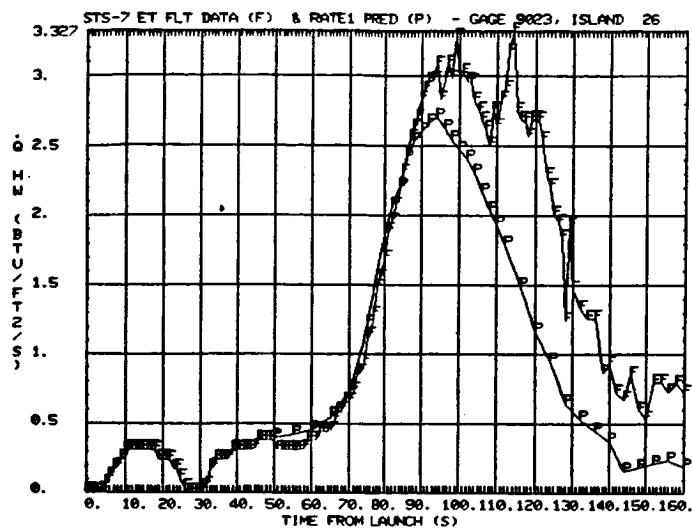
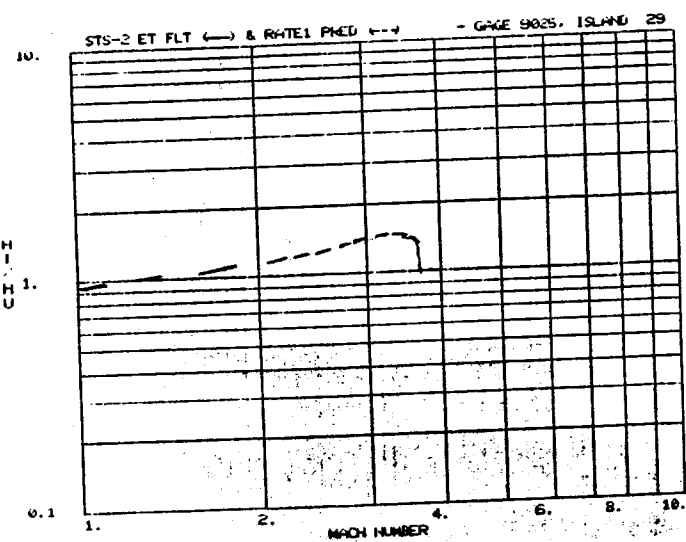


Fig. A.18c Aerothermal Analysis for Gage 9023 in STS-7

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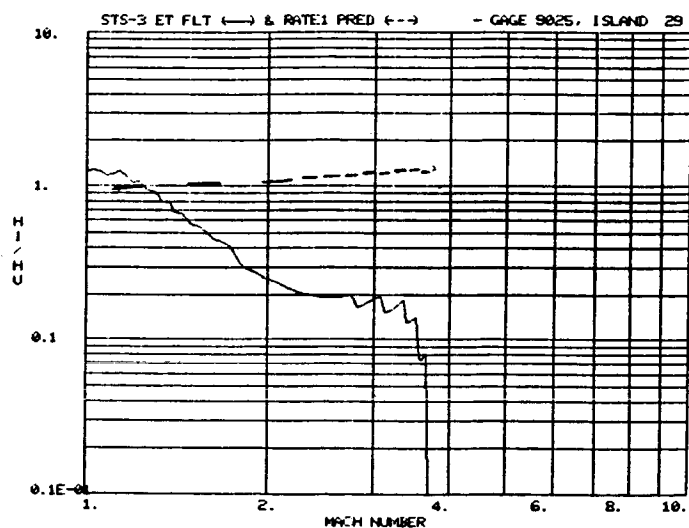
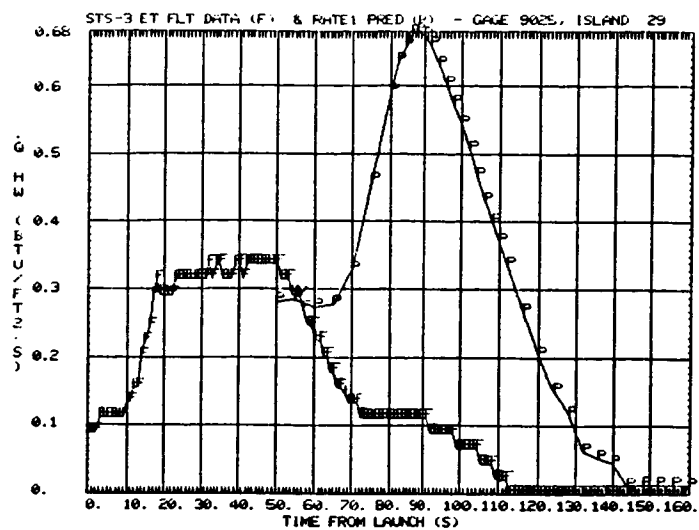


NOTE:

- Bad Heating Rate Measurements

Fig. A.19a Aerothermal Analysis for Gage 9025 in STS-2

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NOTE:

- Bad Heating Rate Measurements

Fig. A.19b Aerothermal Analysis for Gage 9025 in STS-3

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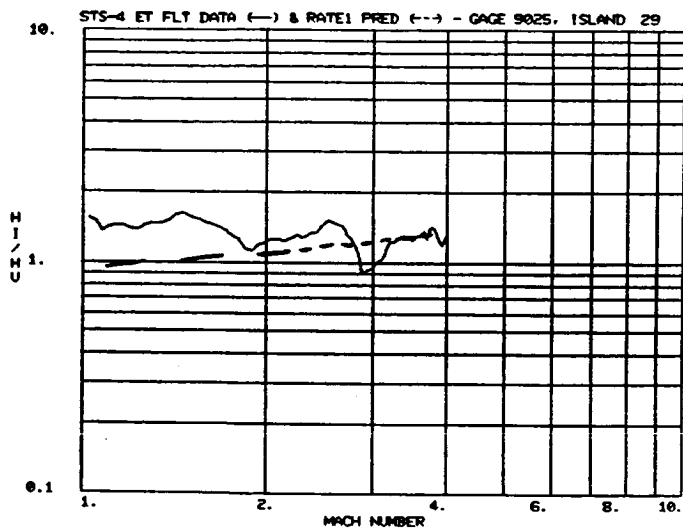
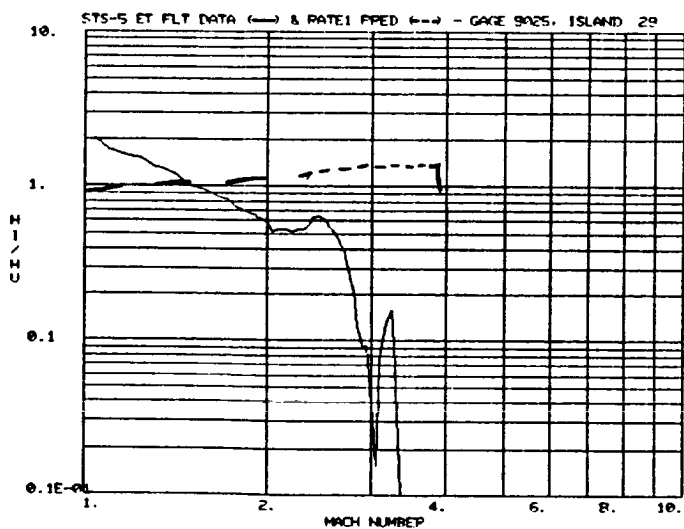
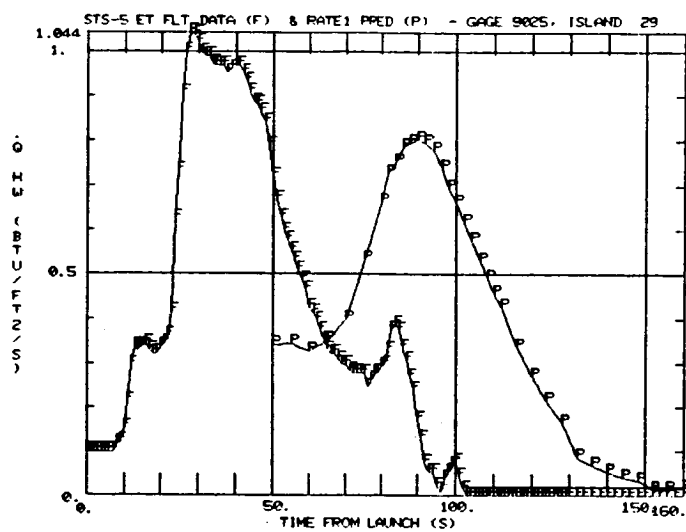


Fig. A.19c Aerothermal Analysis for Gage 9025 in STS-4

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NOTE:

- Bad Heating Rate Measurements

Fig. A.19d Aerothermal Analysis for Gage 9025 in STS-5

REMTECH INC.

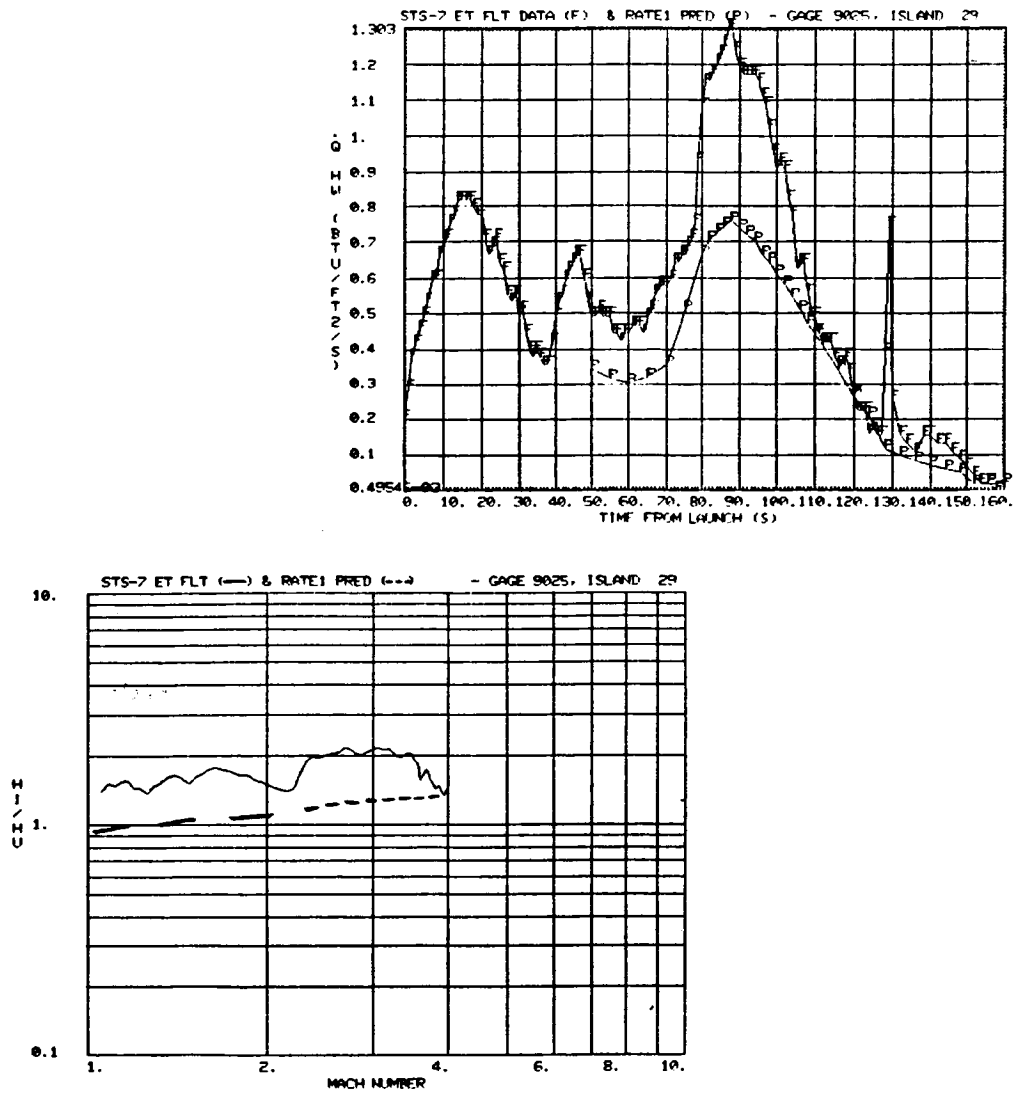
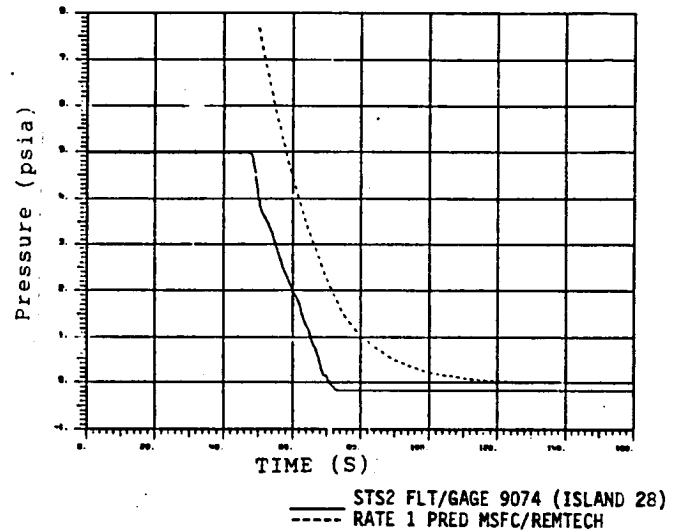
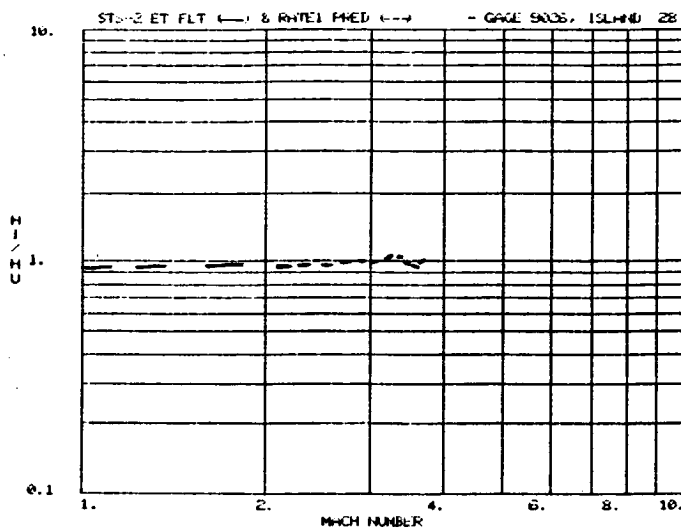


Fig. A.19e Aerothermal Analysis for Gage 9025 in STS-7

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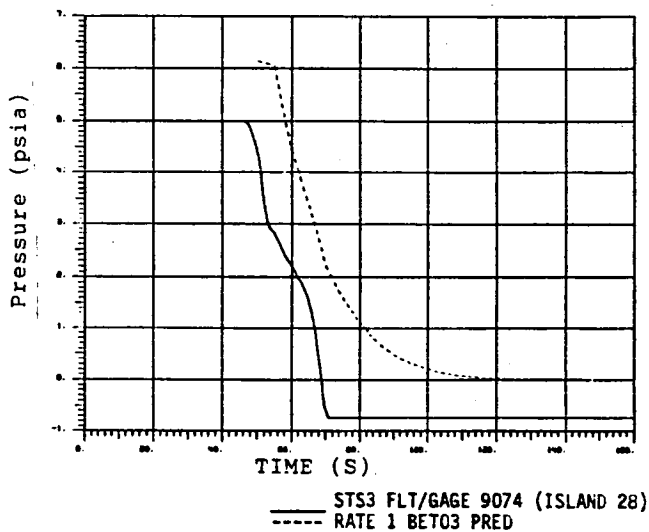
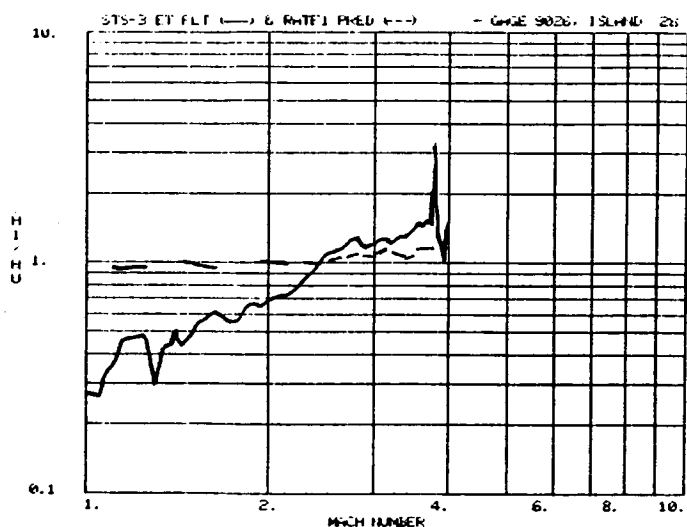
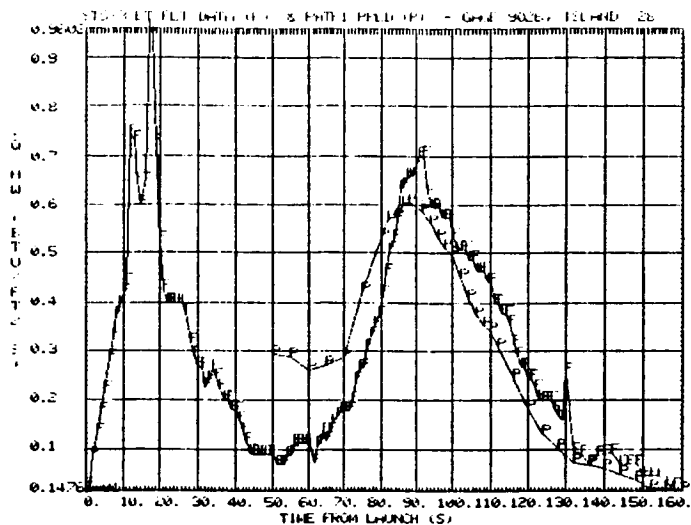


NOTE:

- Bad Pressure Measurements
- Bad Heating Rate Measurements

Fig. A.20a Aerothermal Analysis for Gage 9026 in STS-2

REMTECH INC.



NOTE:

- Bad Pressure Measurements

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Fig. A.20b Aerothermal Analysis for Gage 9026 in STS-3

REMTECH INC.

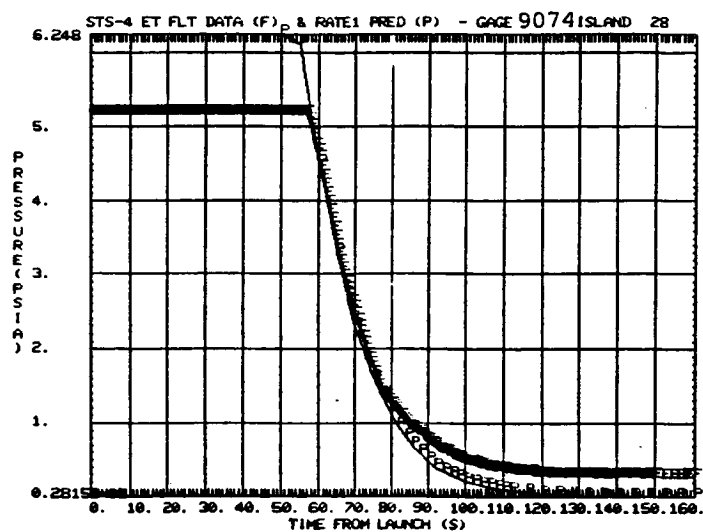
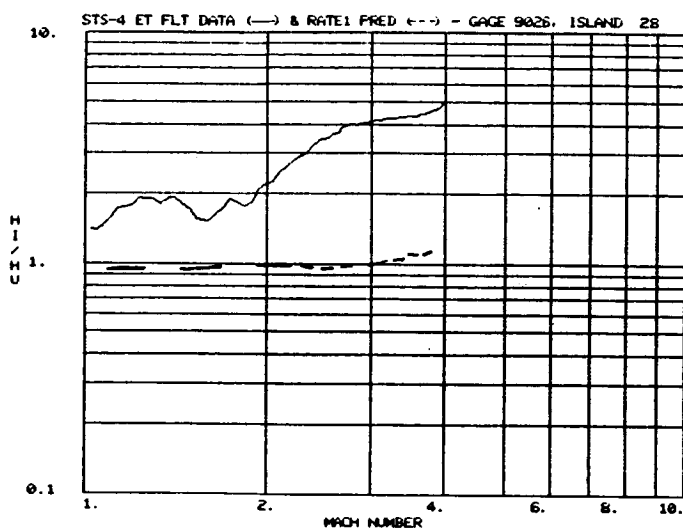
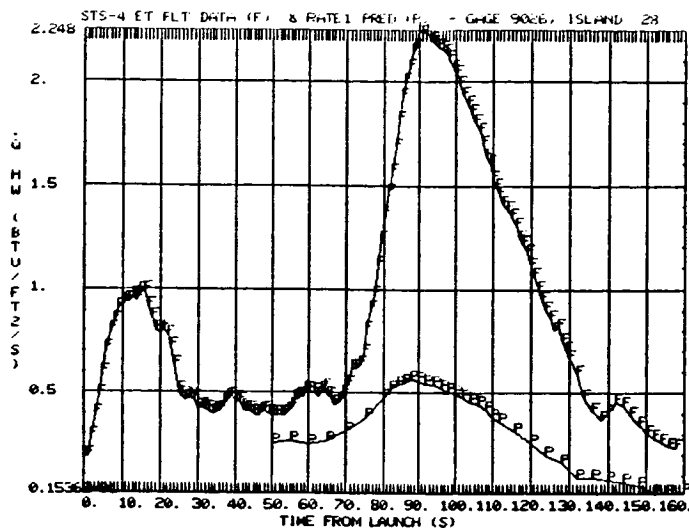


Fig. A.20c Aerothermal Analysis for Gage 9026 in STS-4

REMTECH INC.

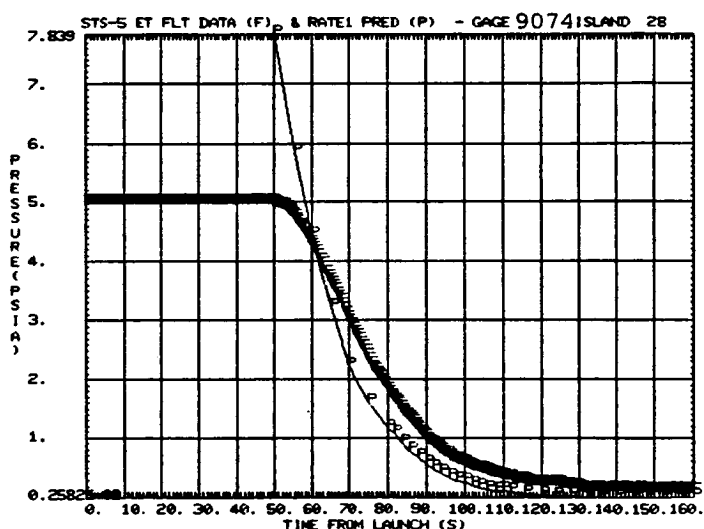
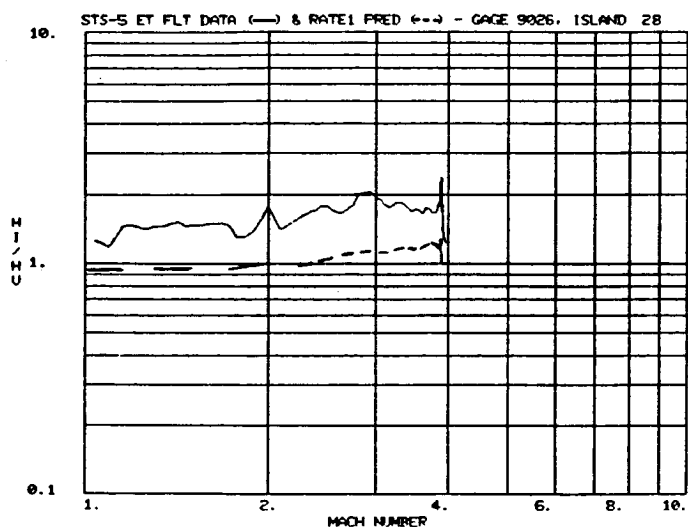
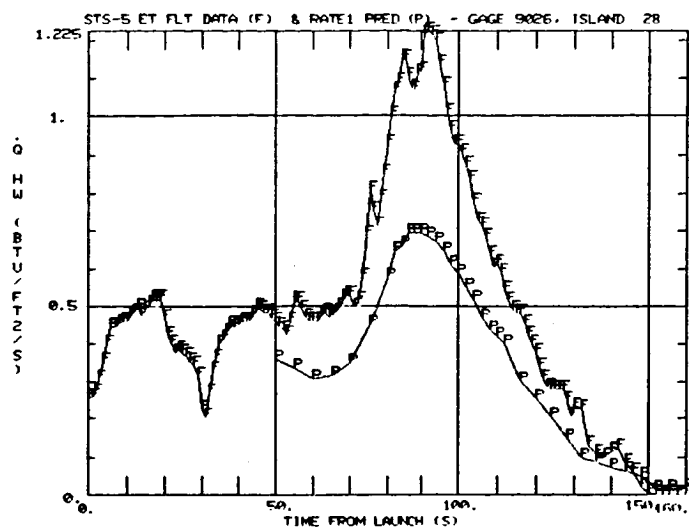
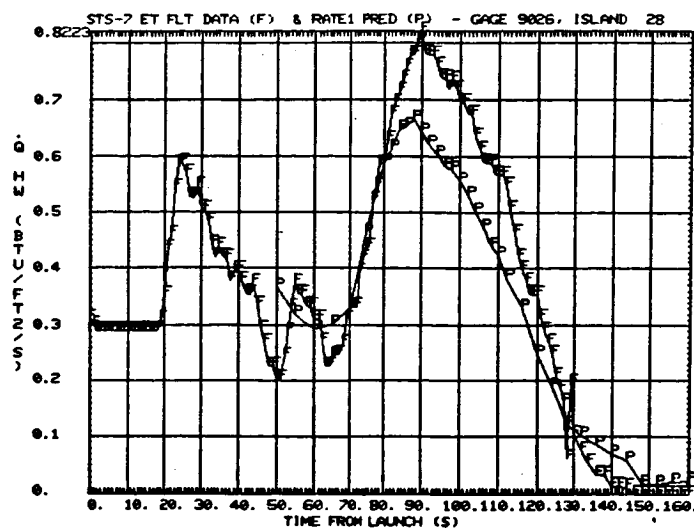


Fig. A.20d Aerothermal Analysis for GAGE 9026 in STS-5



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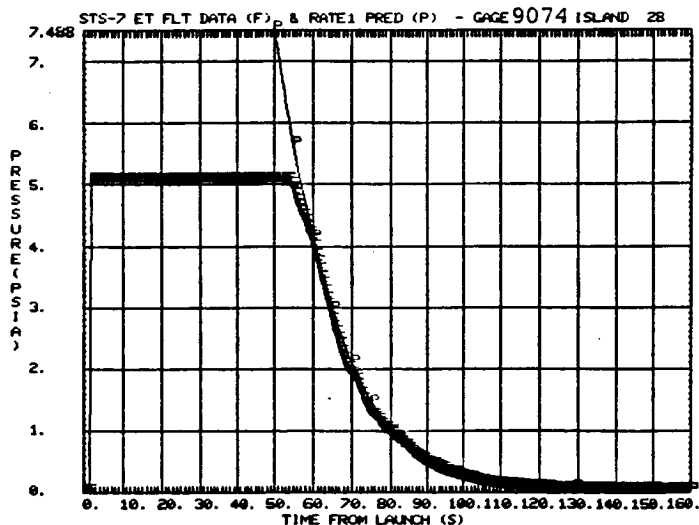
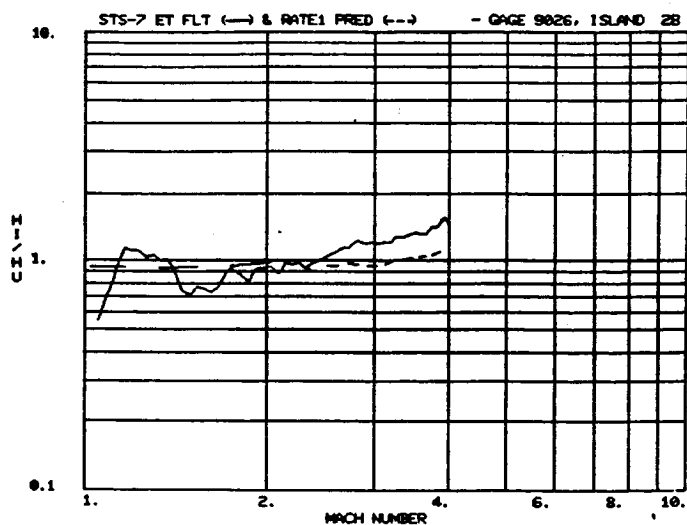
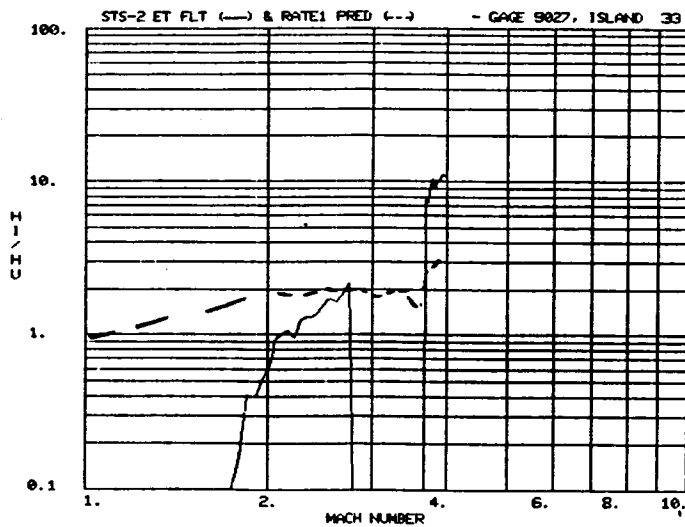
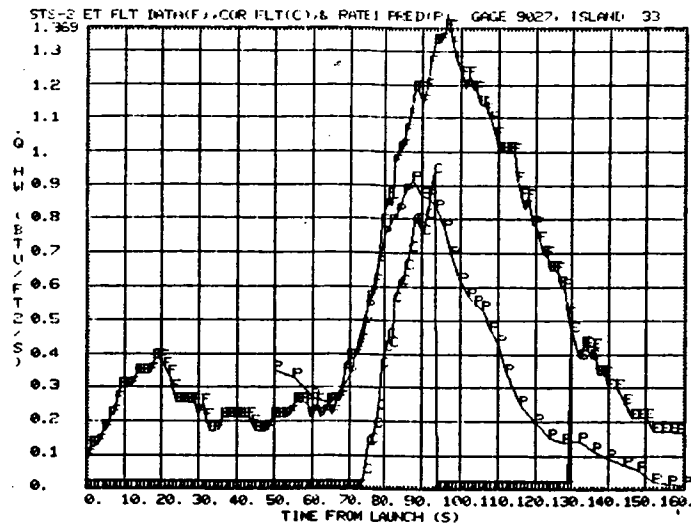


Fig. A.20e Aerothermal Analysis for Gage 9026 in STS-7

REMTECH INC.

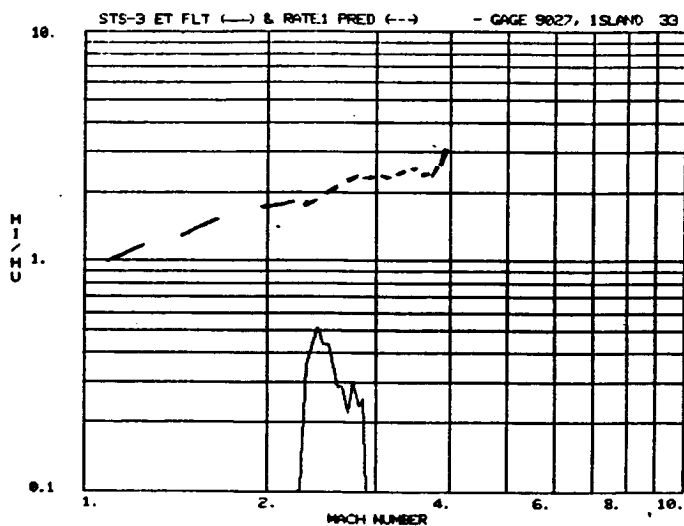
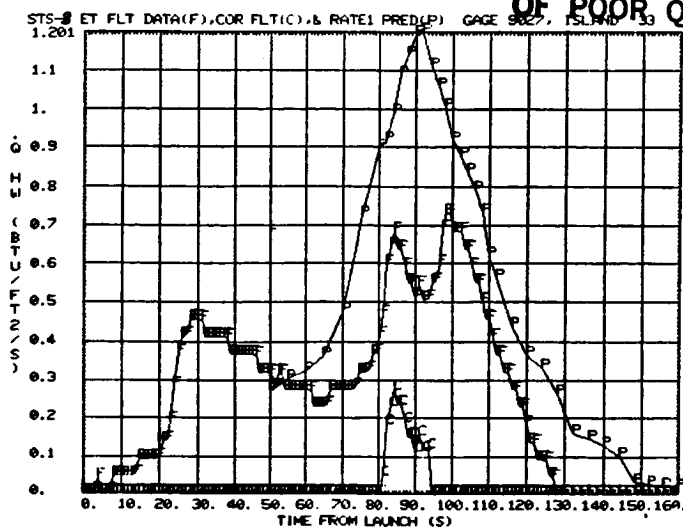


NOTE:

- Plume-Induced Heating was Considered

Fig. A.21a Aerothermal Analysis for Gage 9027 in STS-2

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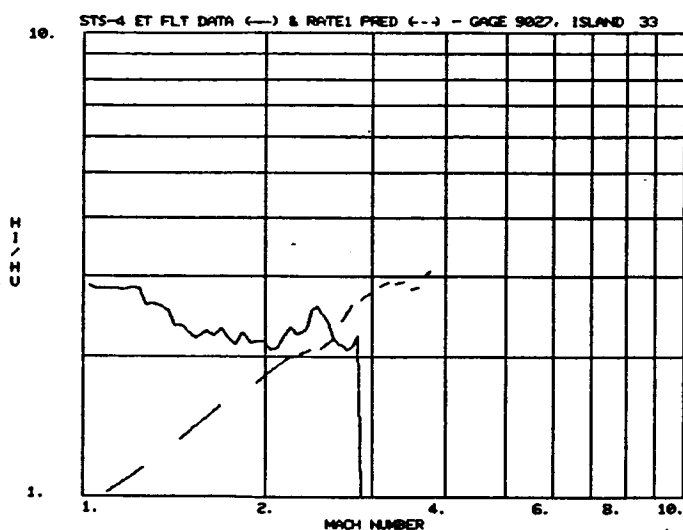
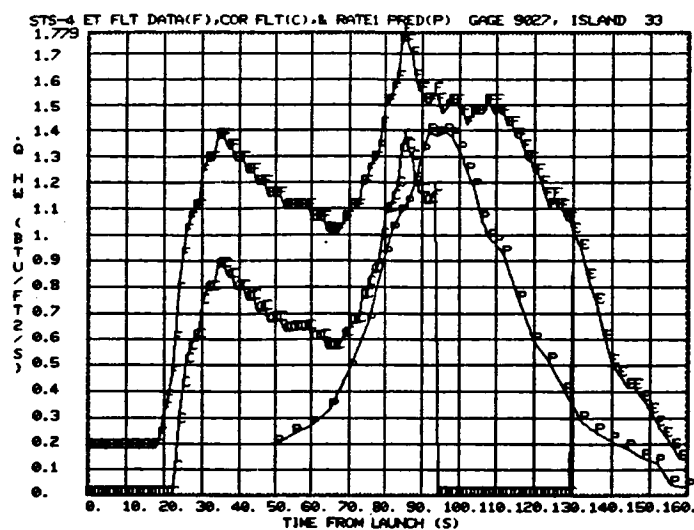


NOTE:

- Plume-Induced Heating was Considered

Fig. A.21b Aerothermal Analysis for Gage 9027 in STS-3

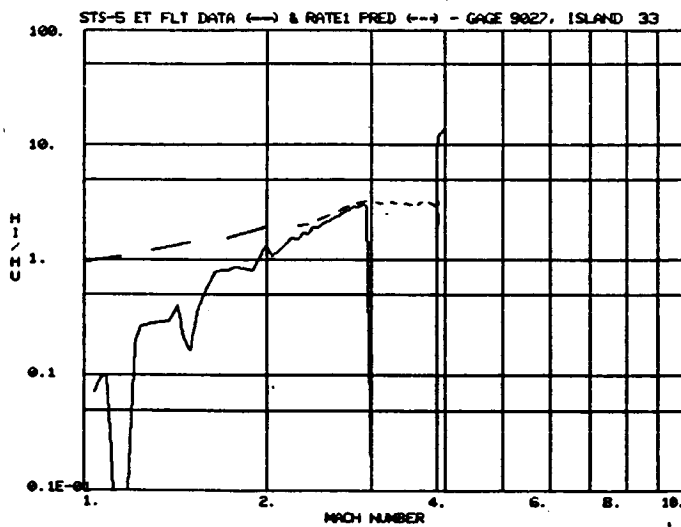
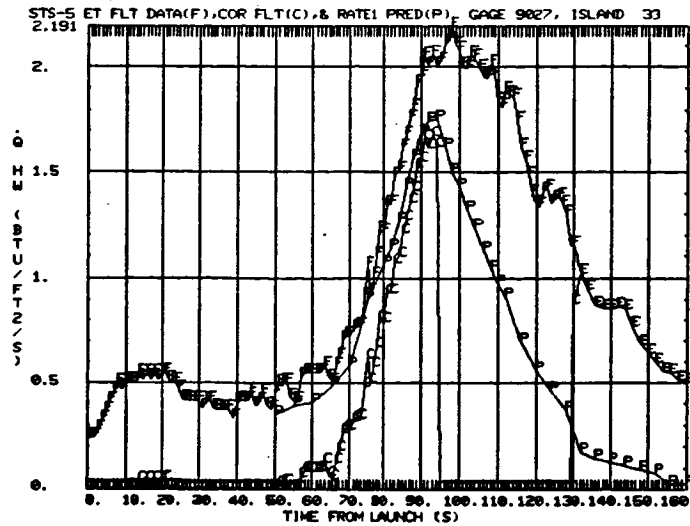
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NOTE:

- Plume-Induced Heating was Considered

Fig. A,21c Aerothermal Analysis for GAge 9027 in STS-4

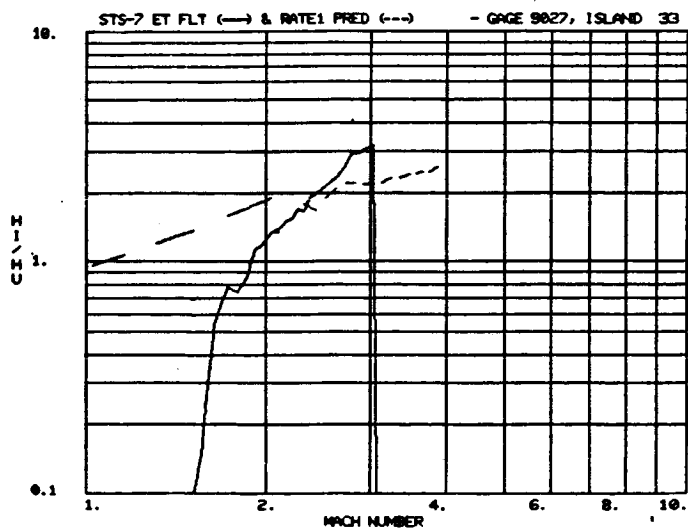
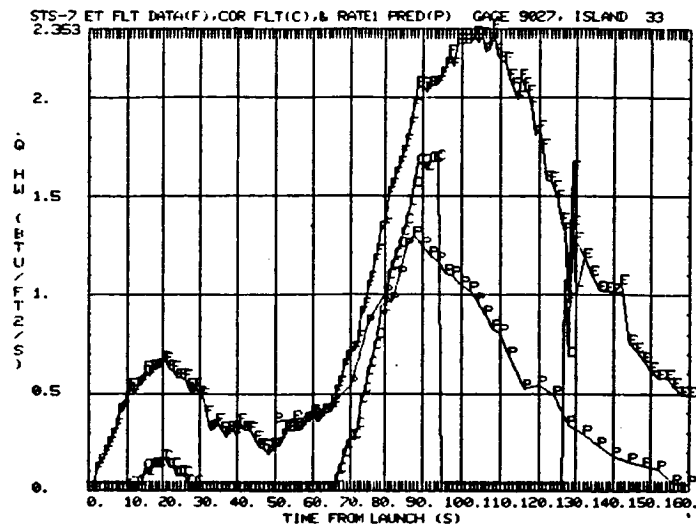


NOTE:

- Plume-Induced Heating was Considered

Fig. A.21d Aerothermal Analysis for Gage 9027 in STS-5

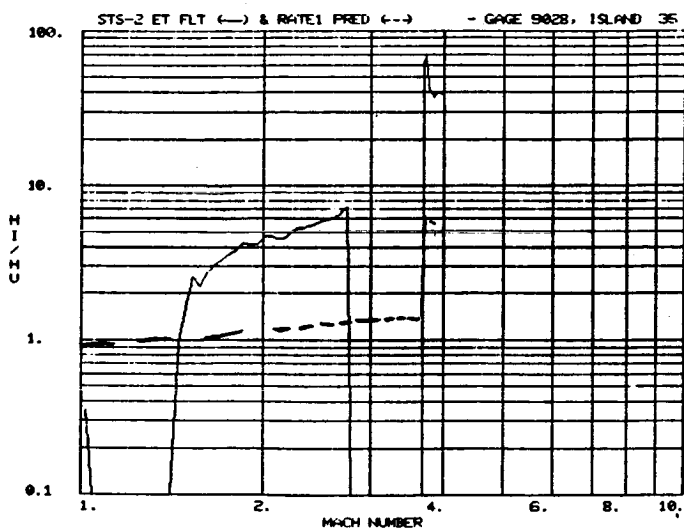
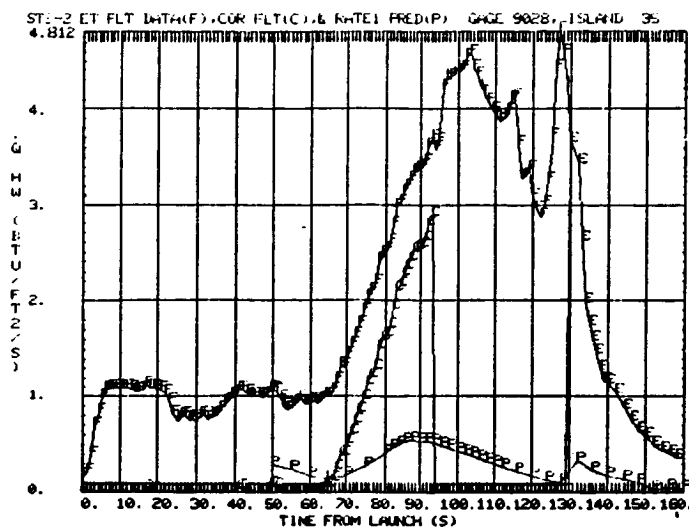
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NOTE:

- Plume-Induced Heating was Considered

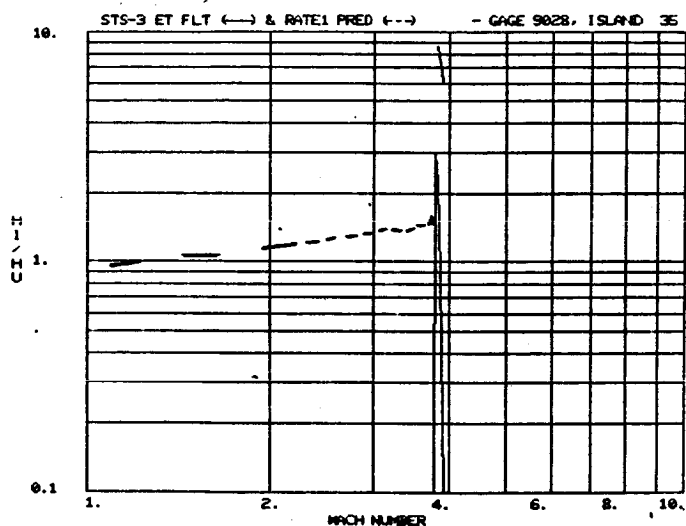
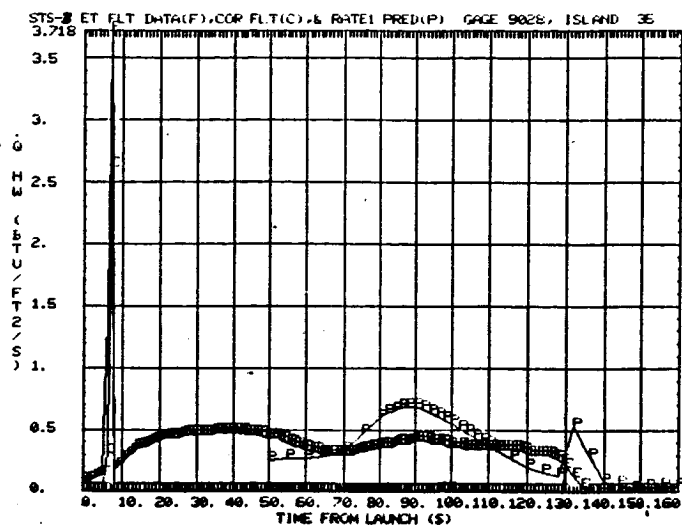
Fig. A,21e Aerothermal Analysis for Gage 9027 in STS-7



NOTE:

- Plume-Induced Heating was Considered

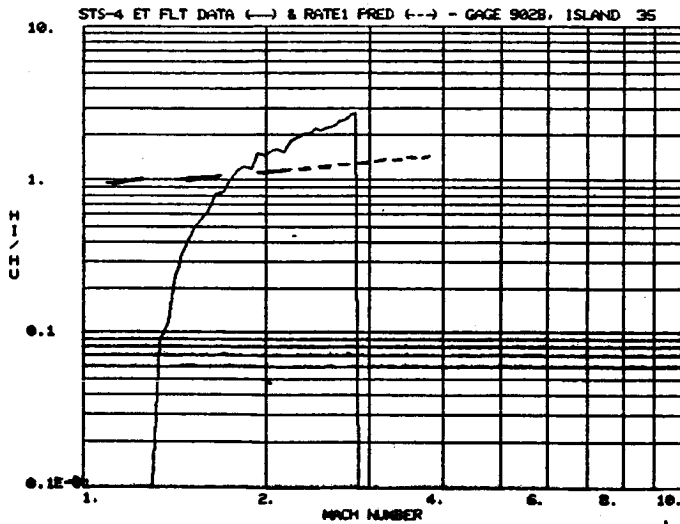
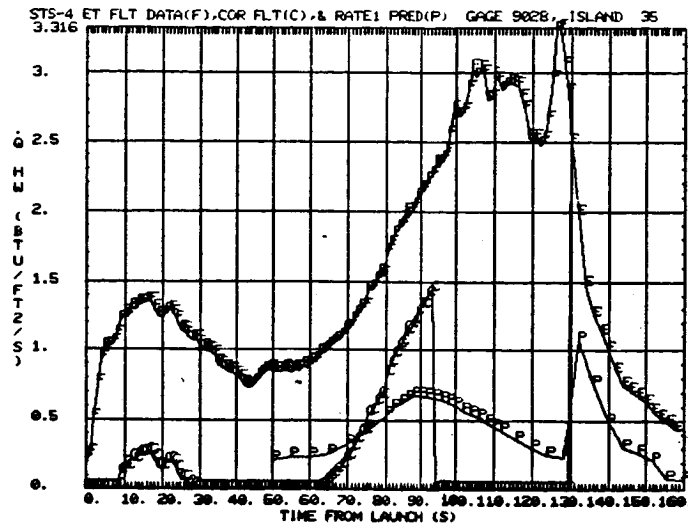
Fig. A.22a Aerothermal Analysis for Gage 9028 in STS-2



NOTE:

- Questionable Measurements

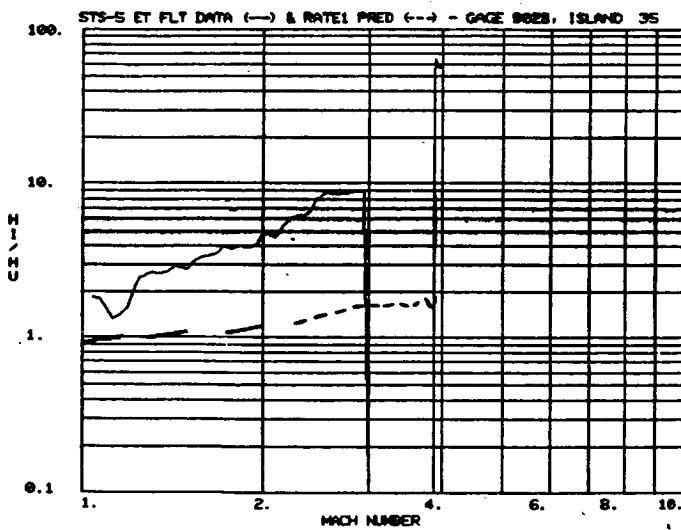
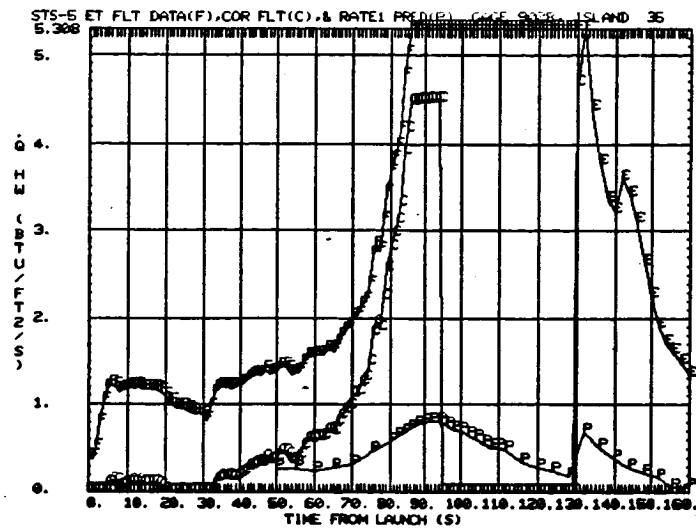
Fig. A.22b Aerothermal Analysis for Gage 9028 in STS-3



NOTE:

- Plume-Induced Heating was Considered

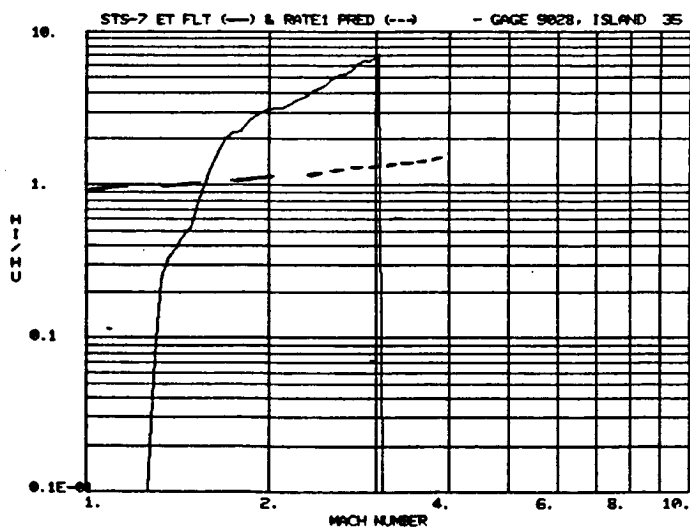
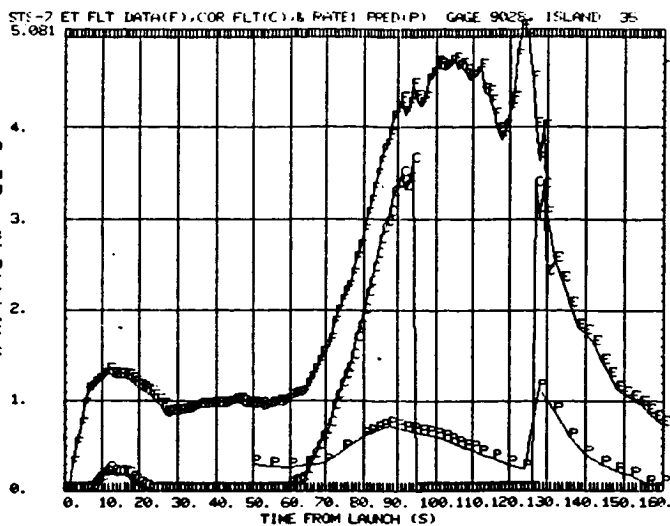
Fig. A.22c Aerothermal Analysis for Gage 9028 in STS-4



NOTE:

- Plume-Induced Heating was Considered

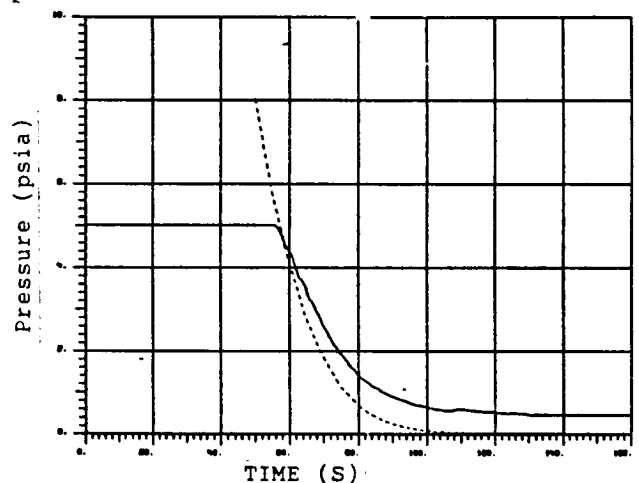
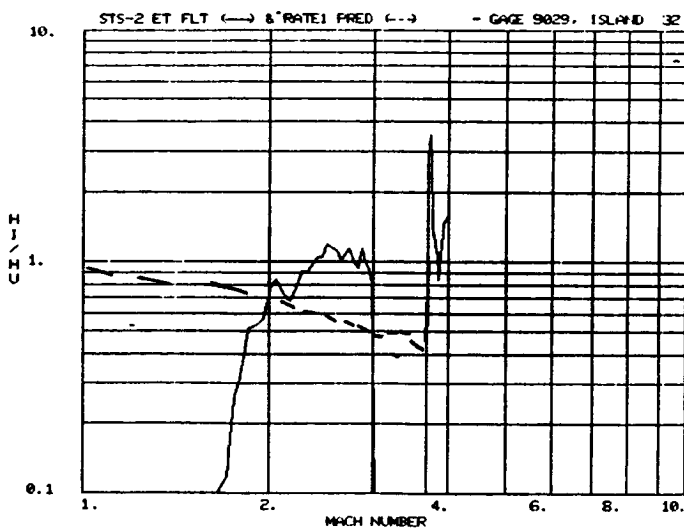
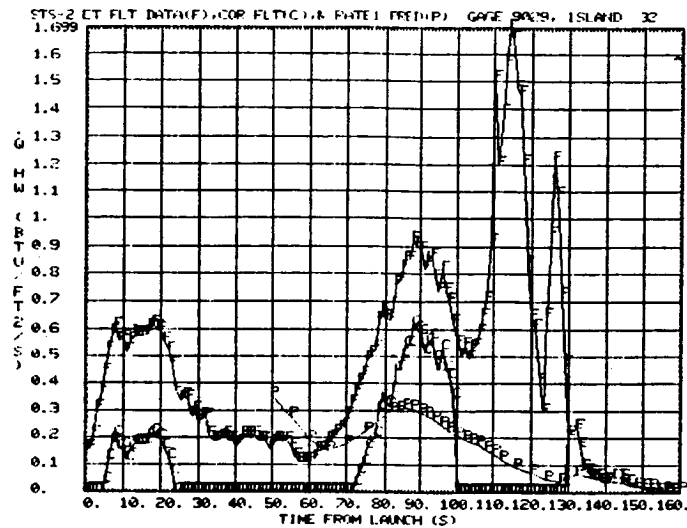
Fig. A.22d Aerothermal Analysis for Gage 9028 in STS-5



NOTE:

- Plume-Induced Heating was Considered

Fig. A.22e Aerothermal Analysis for Gage 9028 in STS-7

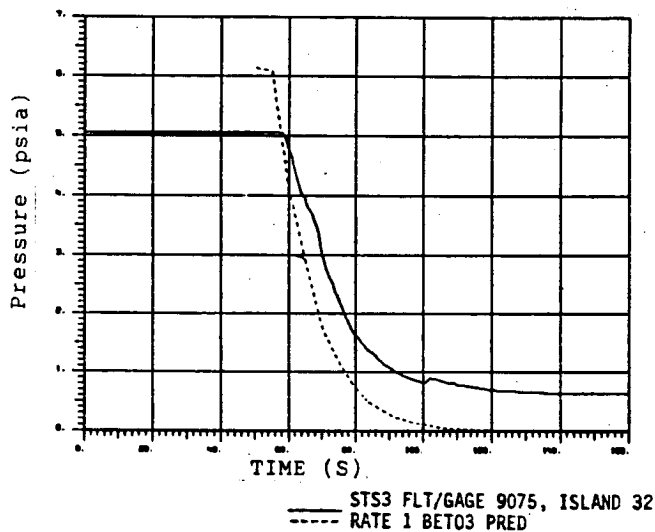
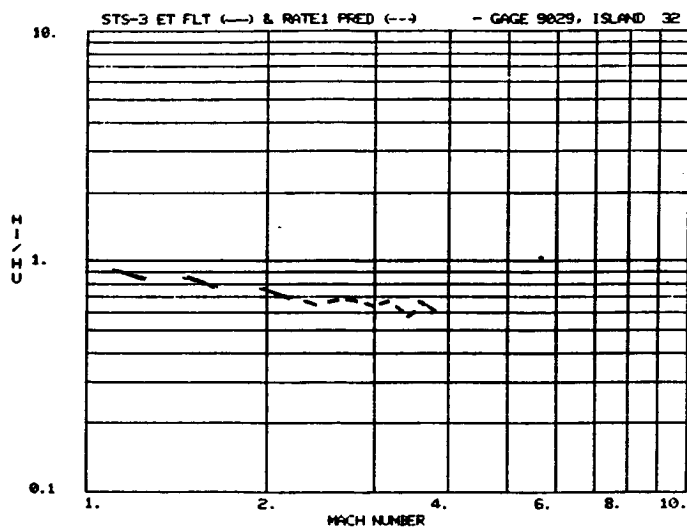
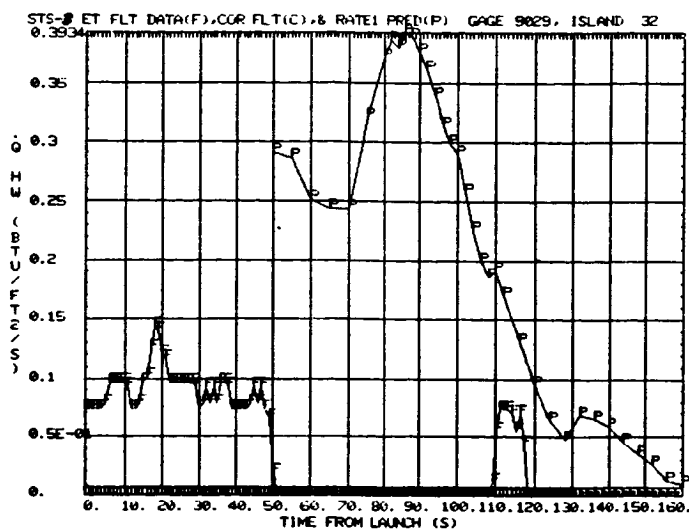


— STS2 FLT/GAGE 9075 ISLAND 32
--- RATE1 PRED MSFC/REMTECH

NOTE:

- Plume-Induced Heating was Considered

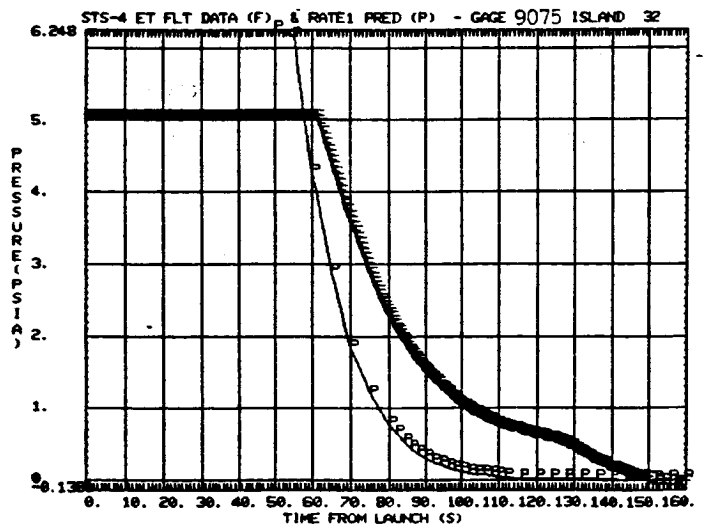
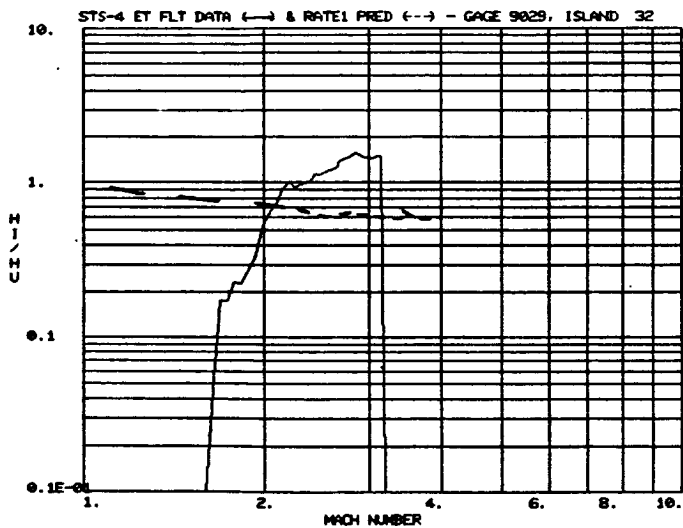
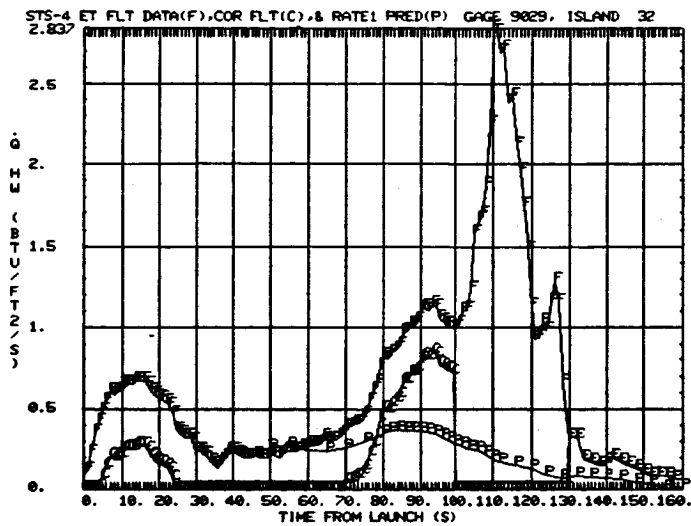
Fig. A.23a Aerothermal Analysis for Gage 9029 in STS-2



NOTE:

- Bad Heating Rate Measurements

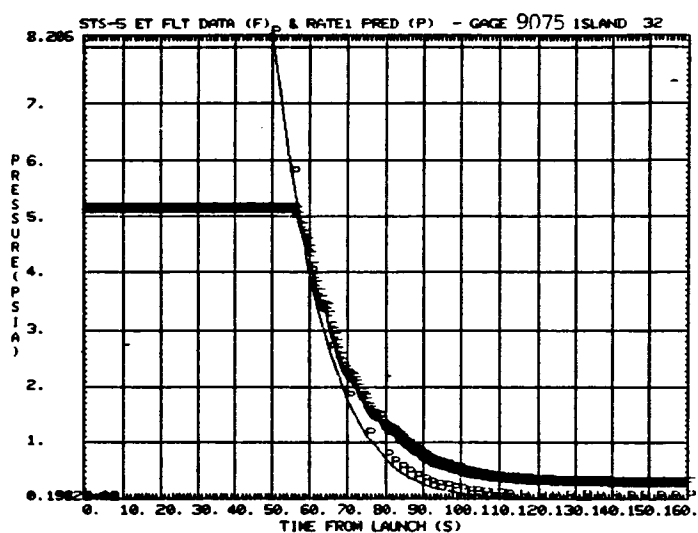
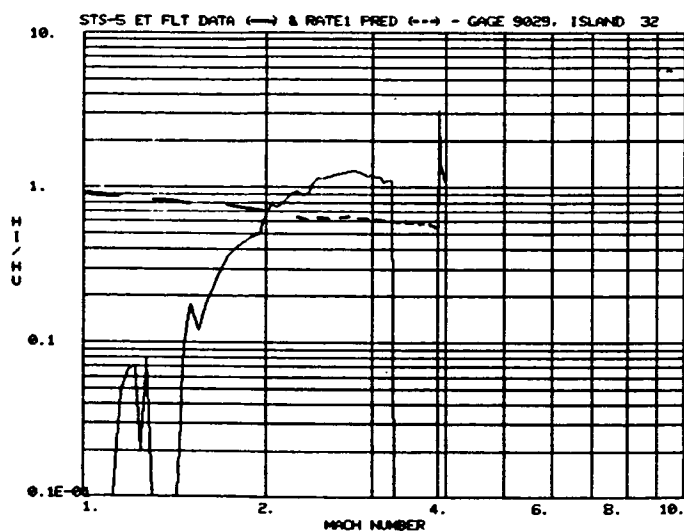
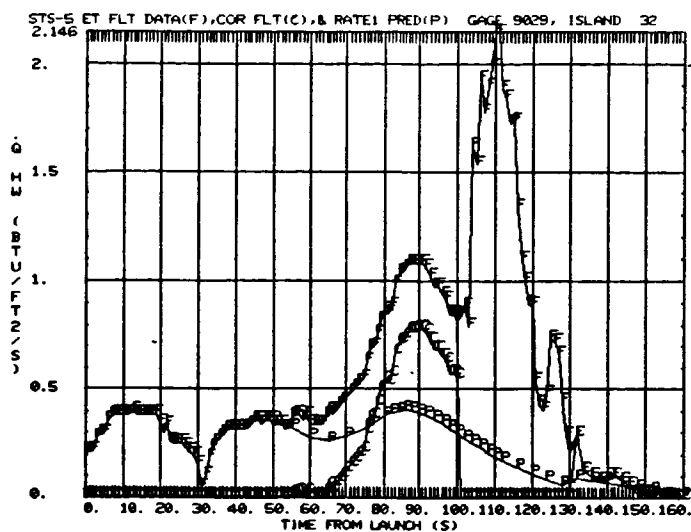
Fig. A.23b Aerothermal Analysis for Gage 9029 in STS-3



NOTE:

- Plume-Induced Heating was Considered

Fig. A.23c Aerothermal Analysis for Gage 9029 in STS-4

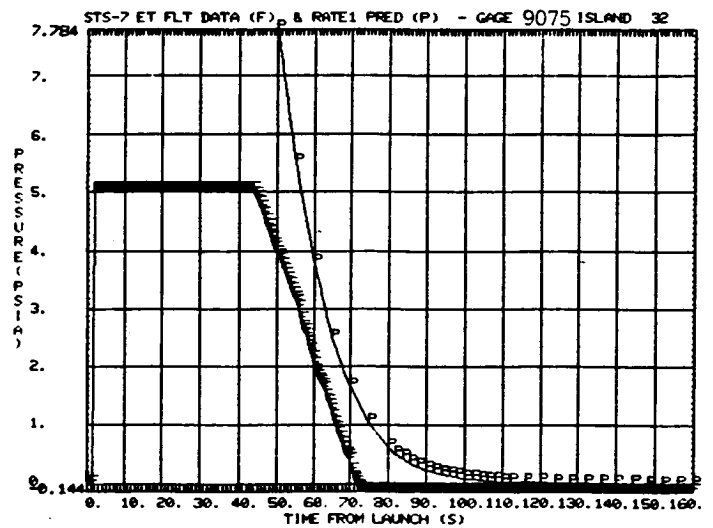
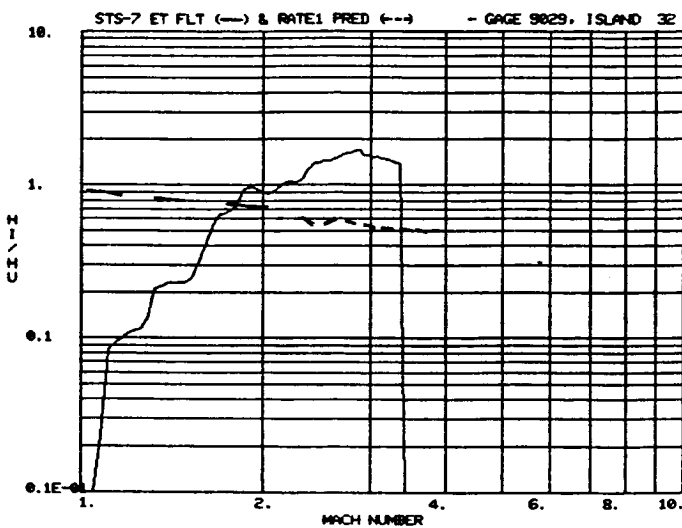
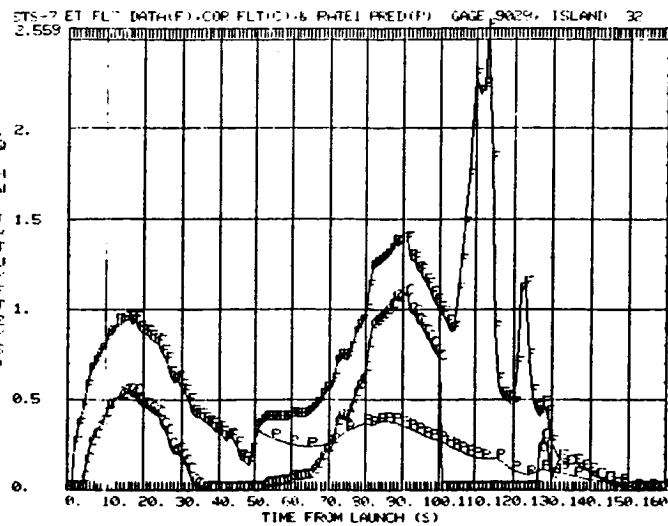


NOTE:

- Plume-Induced Heating was Considered

Fig. A.23d Aerothermal Analysis for GAge 9029 in STS-5

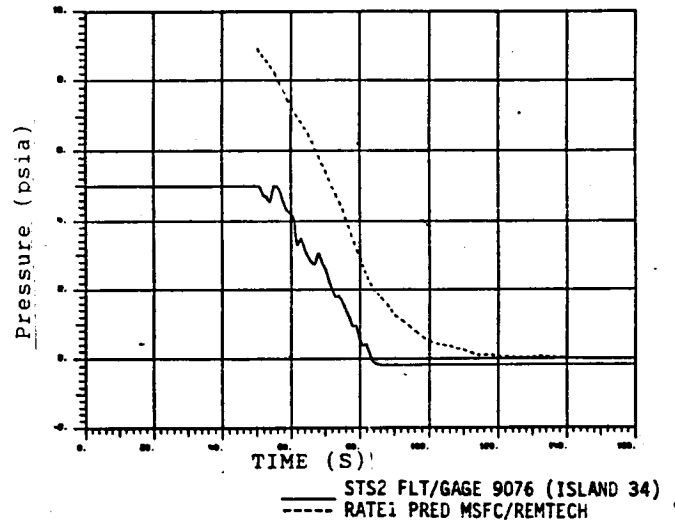
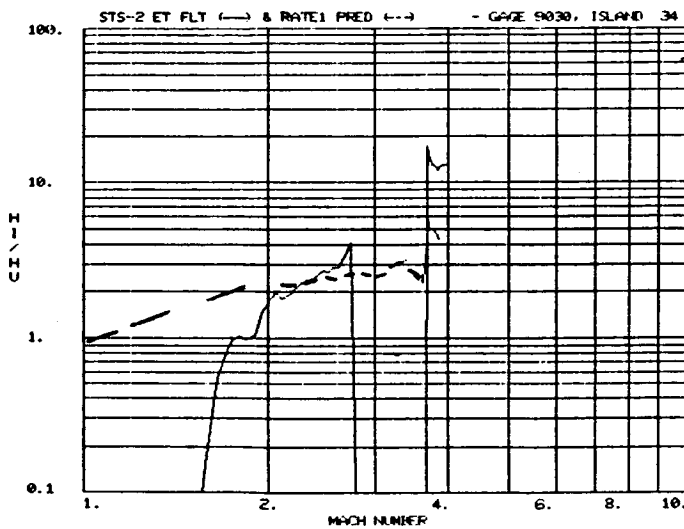
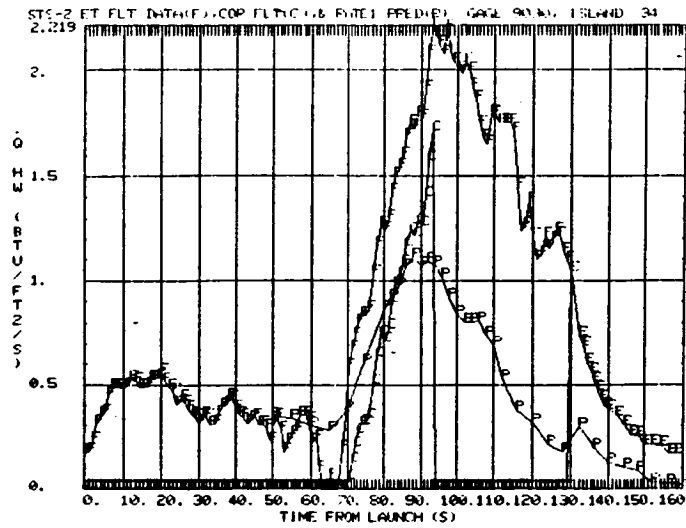
REMTECH INC.



NOTE:

- Plume-Induced Heating was Considered
- Bad Pressure Measurements

Fig. A,23e Aerothermal Analysis for Gage 9029 in STS-7

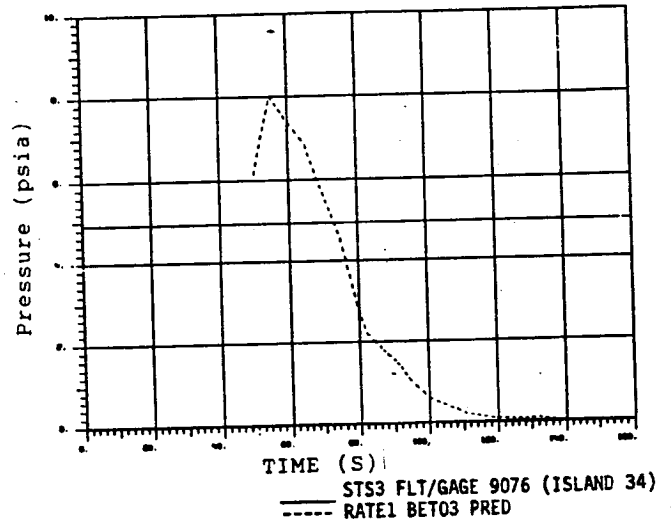
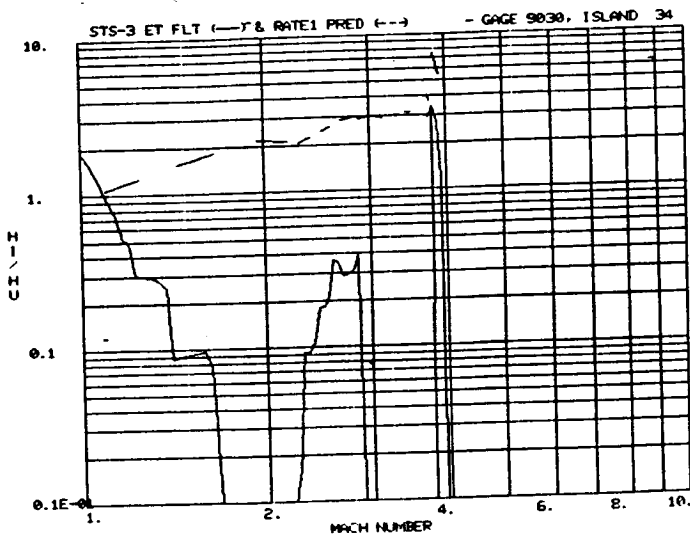
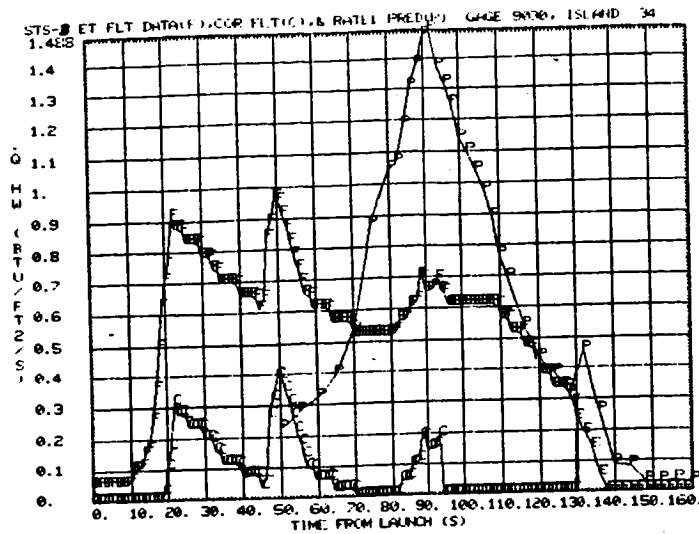


NOTE:

- Plume-Induced Heating was Considered
- Bad Pressure Measurements

Fig. A.24a Aerothermal Analysis for Gage 9030 in STS-2

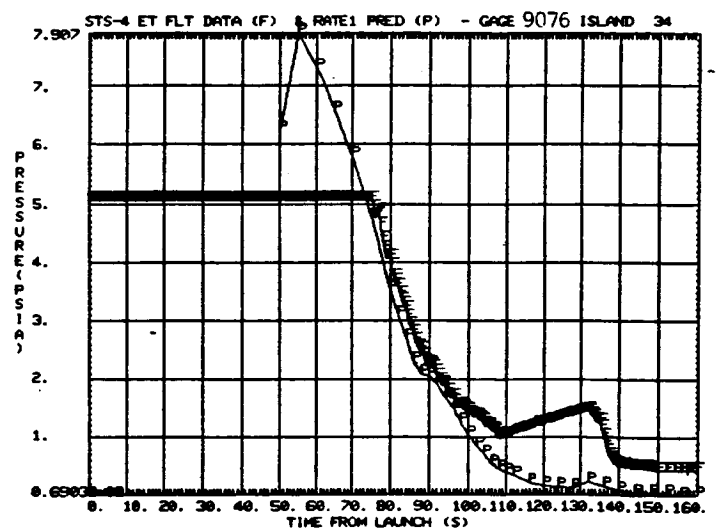
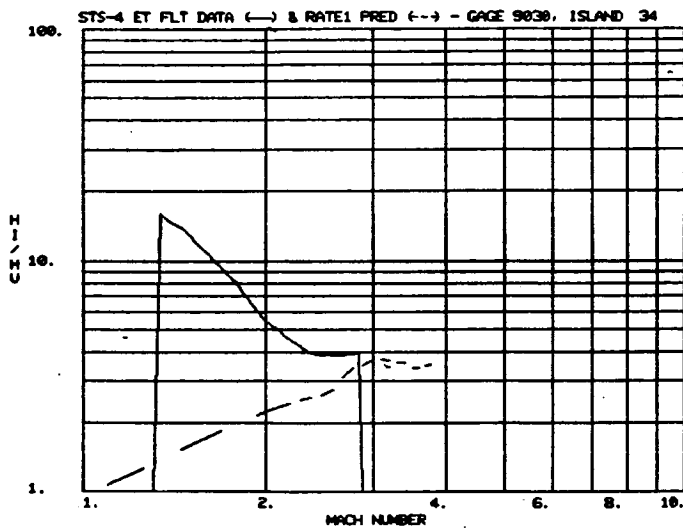
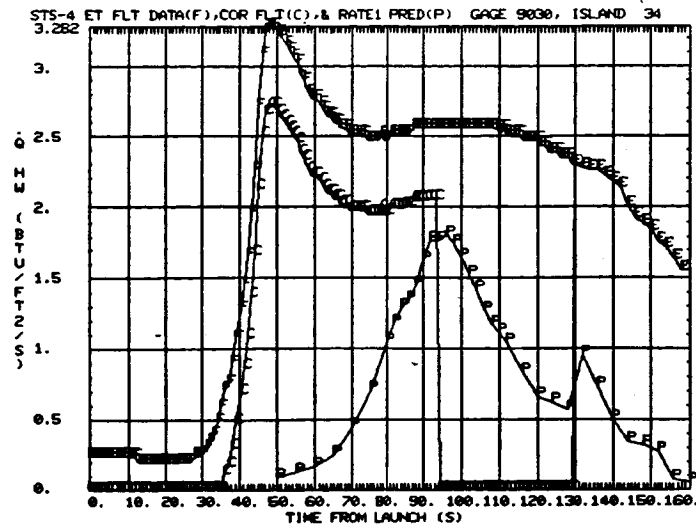
REMTECH INC.



NOTE:

- Bad Pressure Measurements
- Questionable Measurements

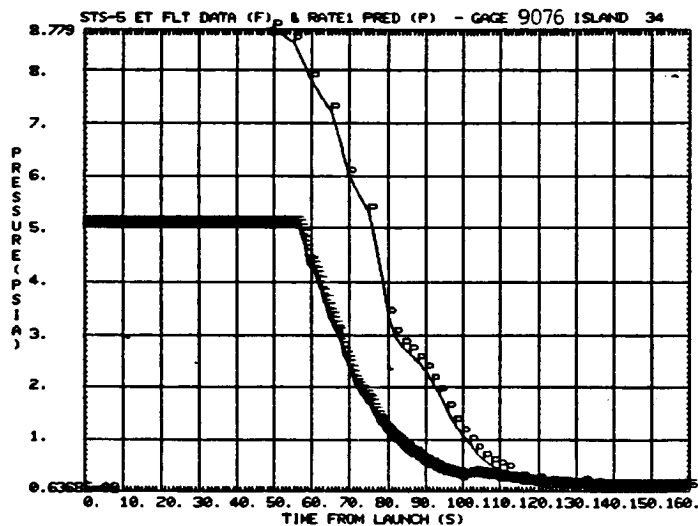
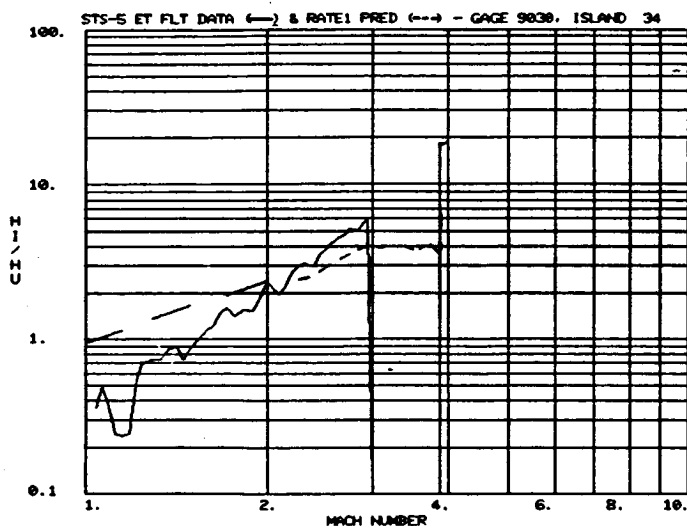
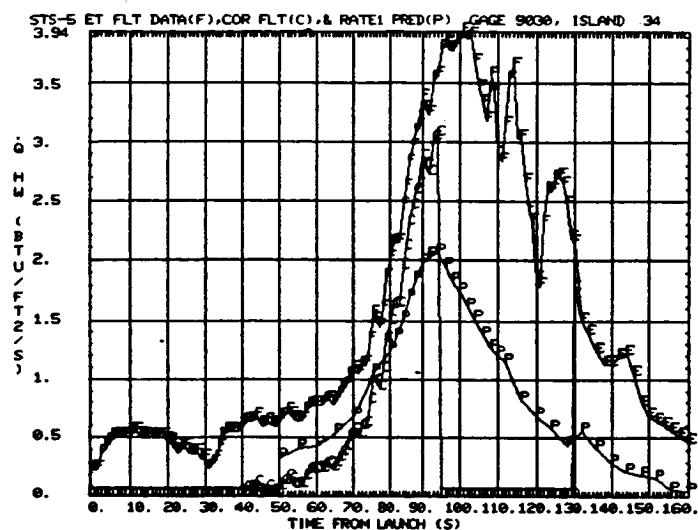
Fig. A.24b Aerothermal Analysis for Gage 9030 in STS-3



NOTE:

- Plume-Induced Heating was Considered
- Questionable Measurements

Fig. A,24c Aerothermal Analysis For Gage 9030 in STS-4



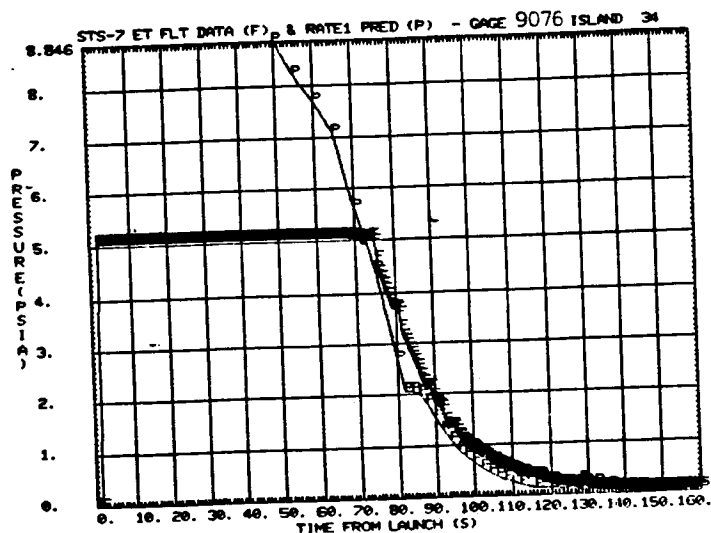
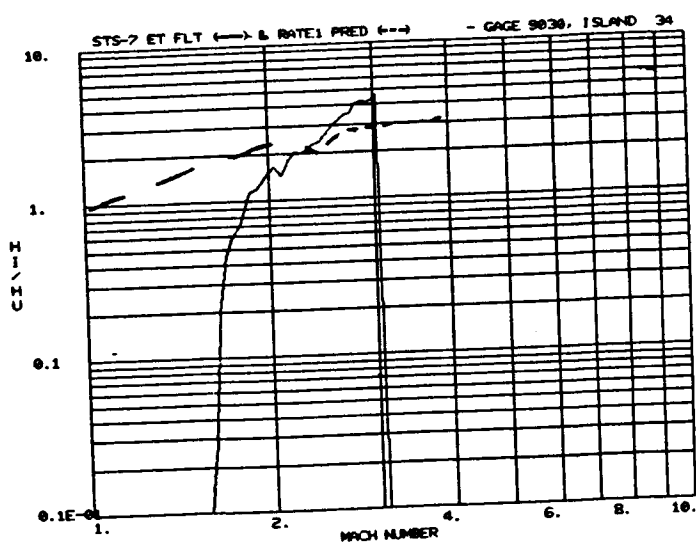
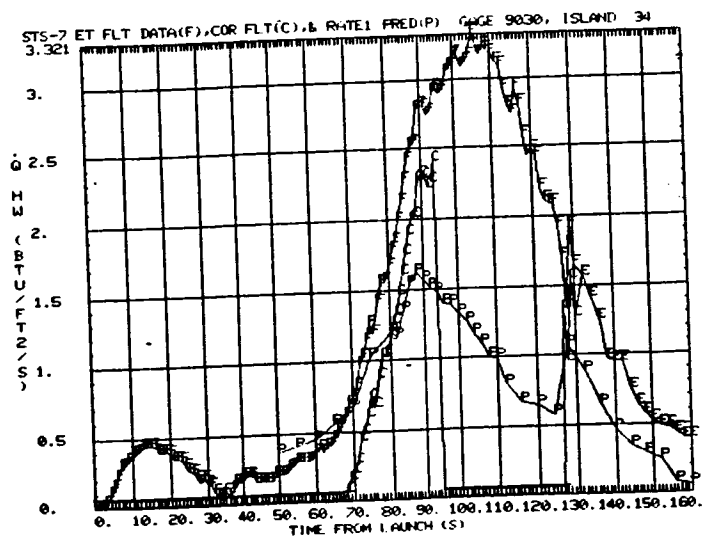
NOTE:

- Plume-Induced Heating was Considered

Fig. A.24d Aerothermal Analysis for Gage 9030 in STS-5

REMTECH INC.

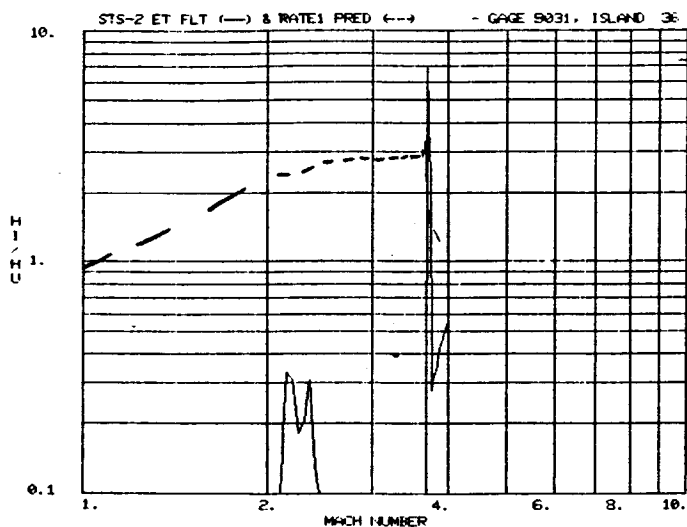
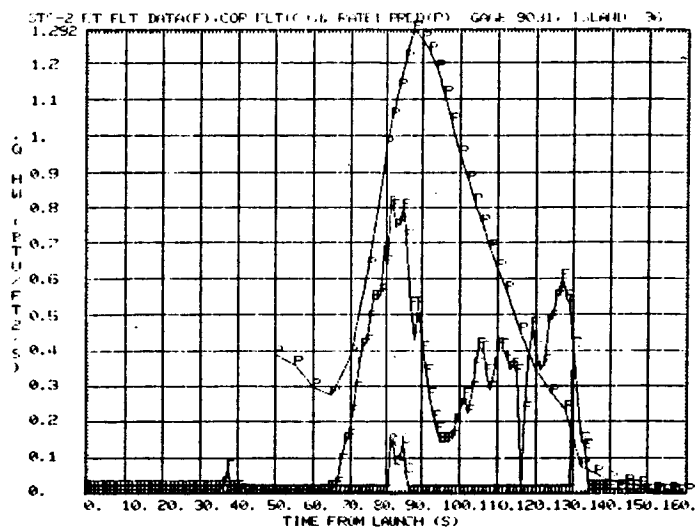
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NOTE:

- Plume-Induced Heating was Considered

Fig. A.24e Aerothermal Analysis for Gage 9030 in STS-7

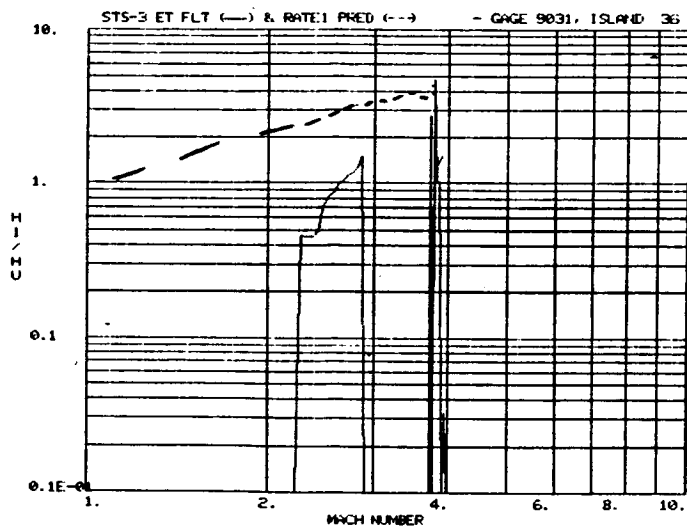
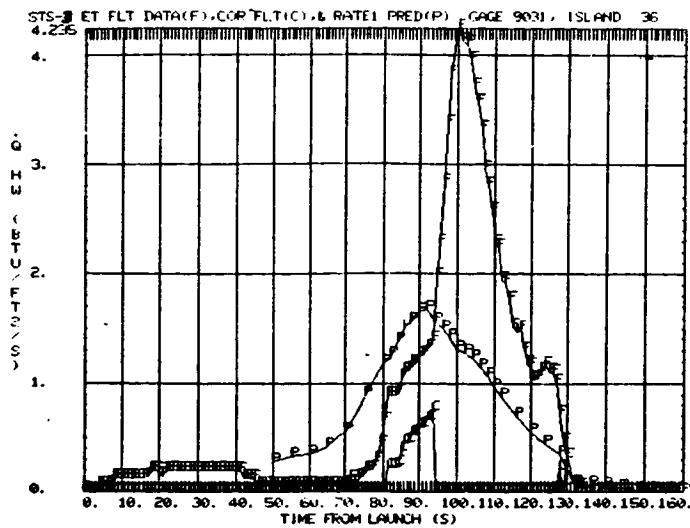


NOTE:

- Plume-Induced Heating was Considered

Fig. A.25a Aerothermal Analysis for Gage 9031 in STS-2

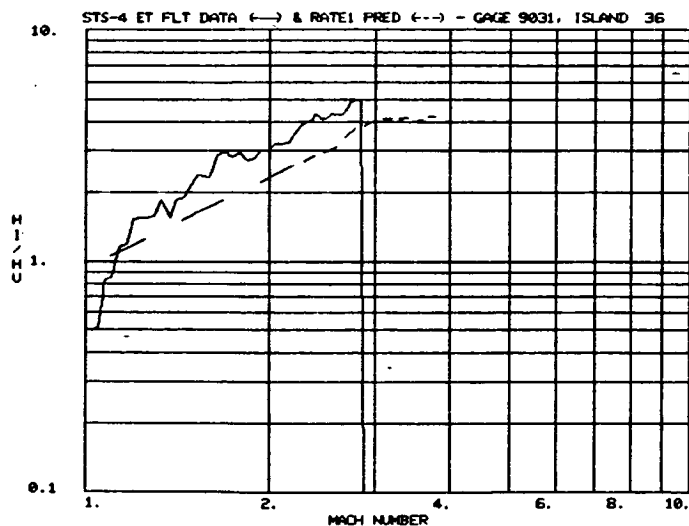
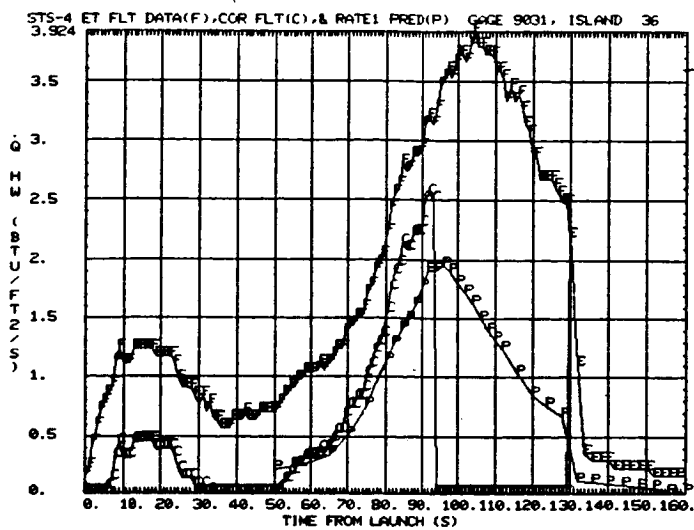
REMTECH INC.



NOTE:

- Plume-Induced Heating was Considered

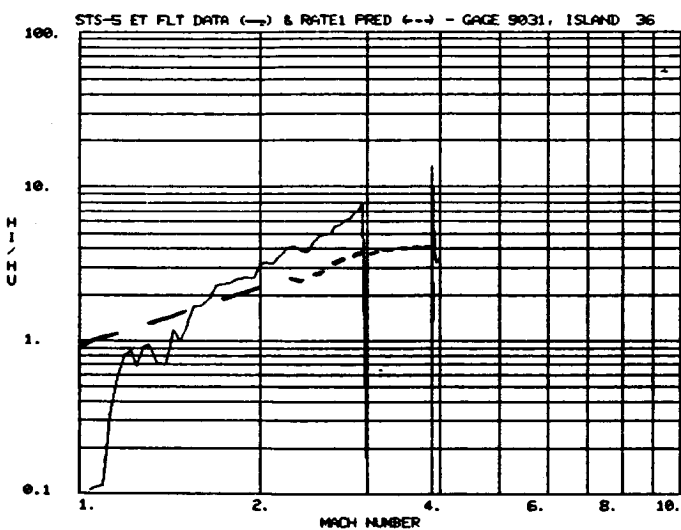
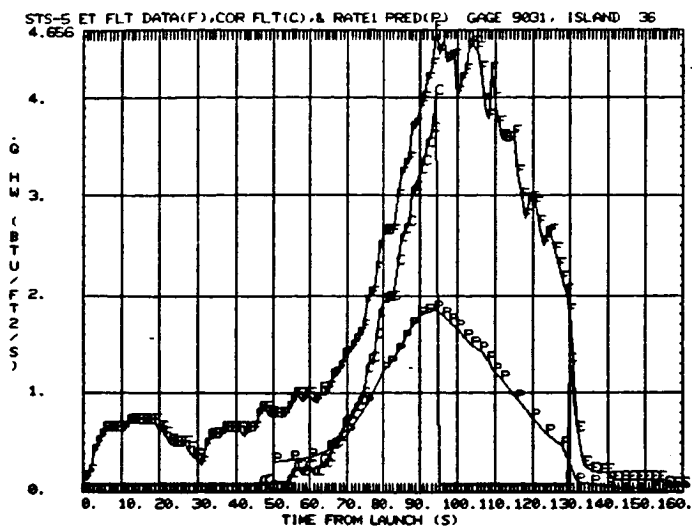
Fig. A.25b Aerothermal Analysis for Gage 9031 in STS-3



NOTE:

- Plume-Induced Heating was Considered

Fig. A.25c Aerothermal Analysis for Gage 9031 in STS-4

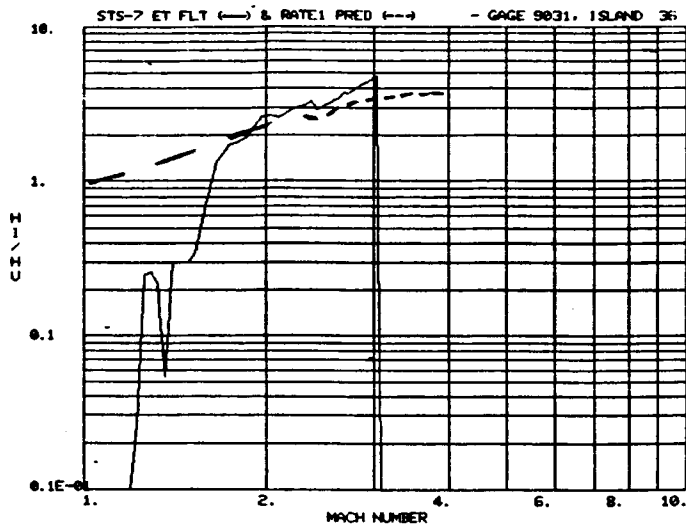
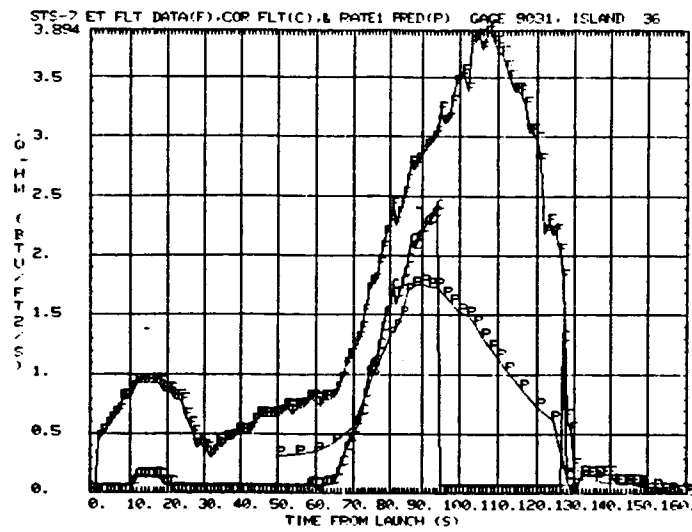


NOTE:

- Plume-Induced Heating was Considered

Fig. A.35d Aerothermal Analysis for Gage 9031 in STS-5

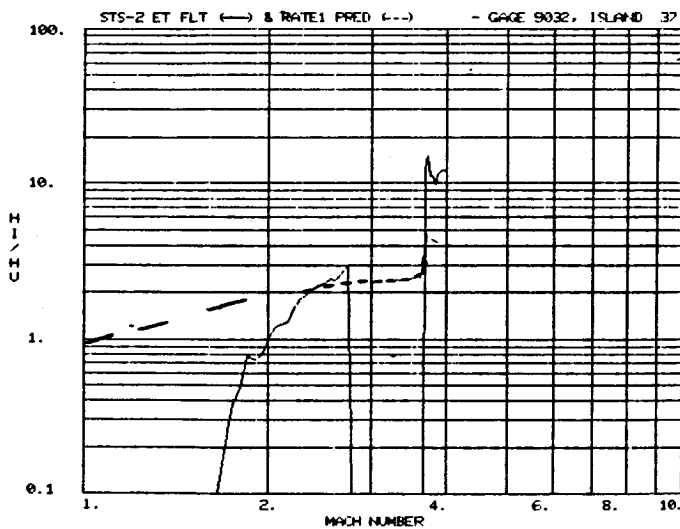
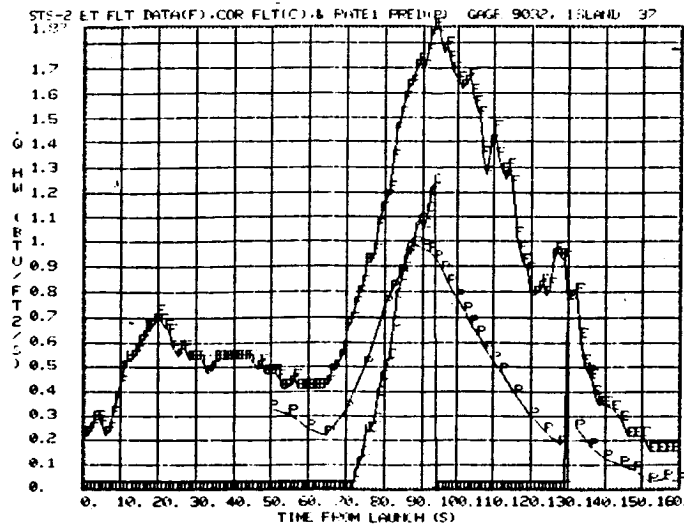
REMTECH INC.



NOTE:

- Plume-Induced Heating was Considered

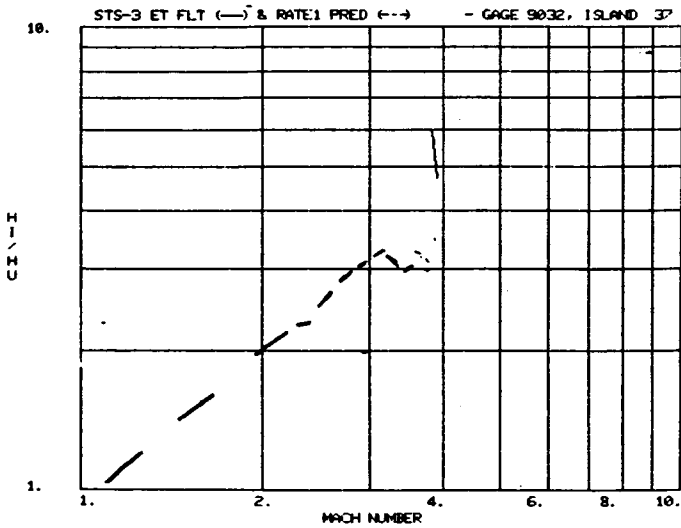
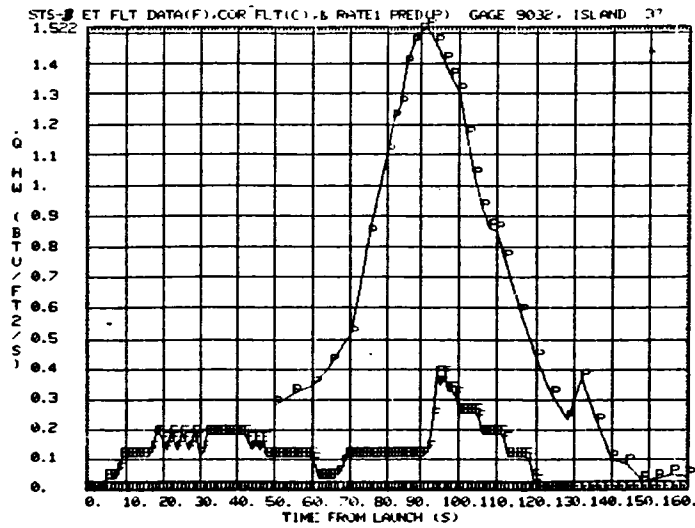
Fig. A.25e Aerothermal Analysis for Gage 9031 in STS-7



NOTE:

- Plume-Induced Heating was Considered

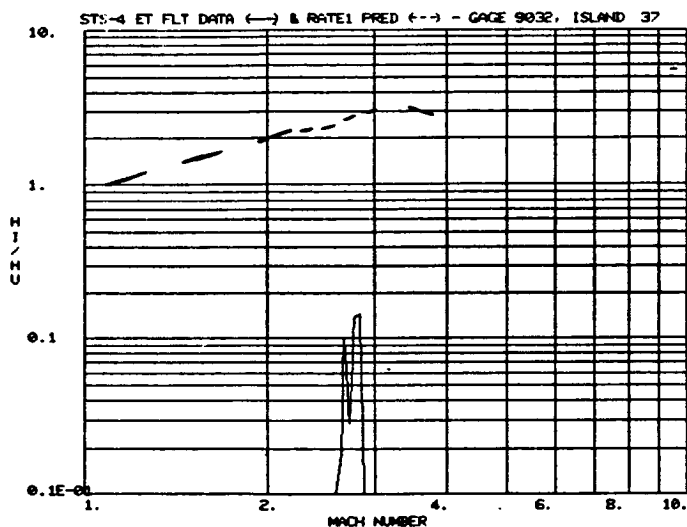
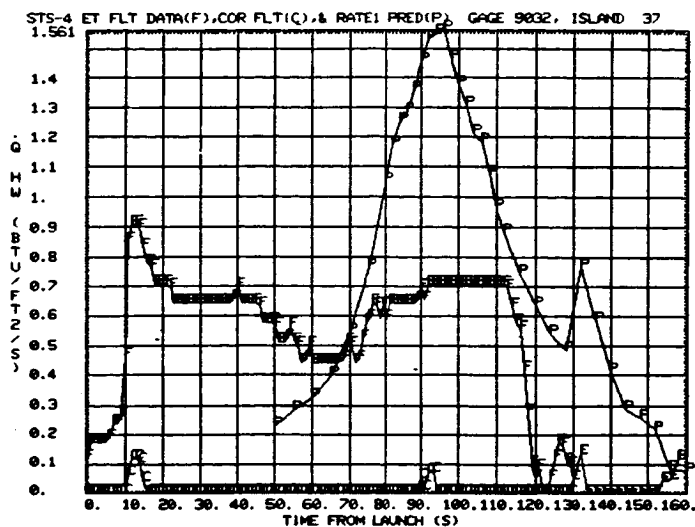
Fig. A.26a Aerothermal Analysis for Gage 9032 in STS-2



NOTE:

- Bad Heating Rate Measurements

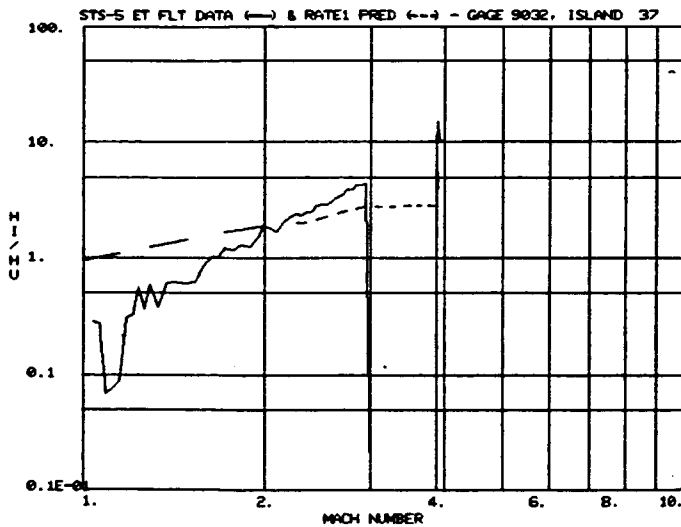
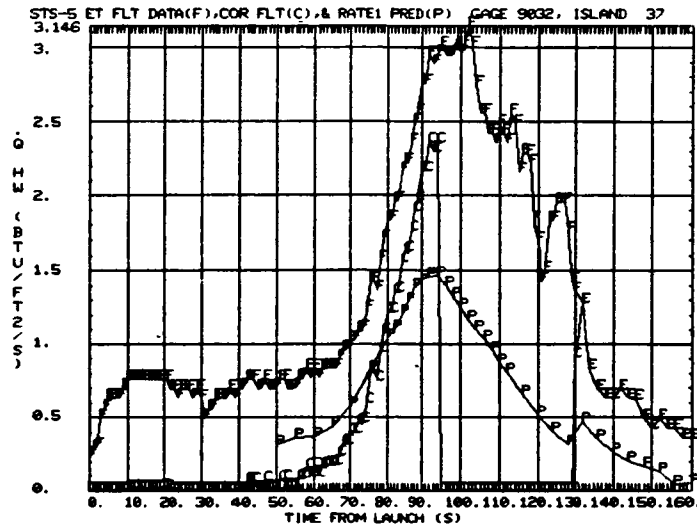
Fig. A,26b Aerothermal Analysis for Gage 9032 in STS-3



NOTE:

- Questionable Measurements

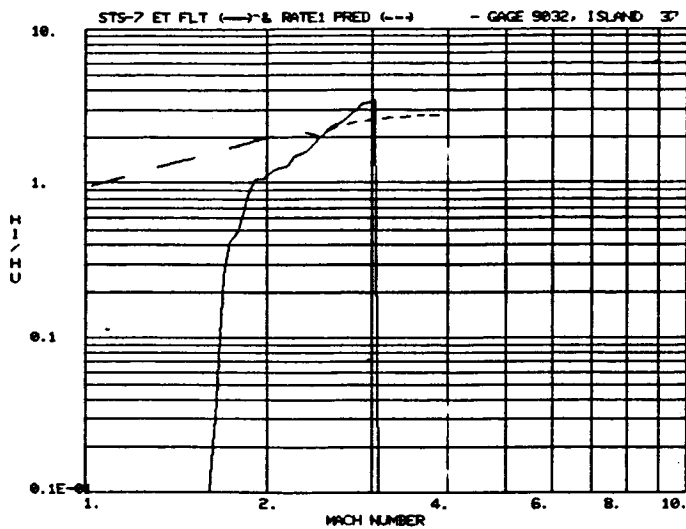
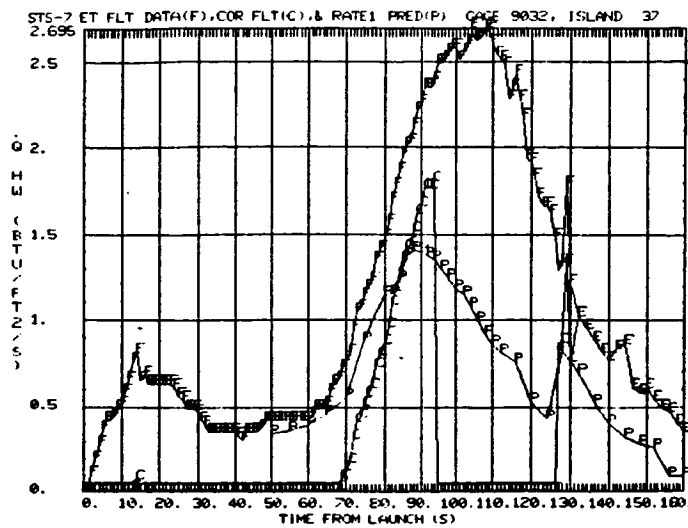
Fig. A.26c Aerothermal Analysis for Gage 9032 in STS-4



NOTE:

- Plume-Induced Heating was Considered

Fig. A,26d Aerothermal Analysis for Gage 9032 in STS-5



NOTE:

- Plume-Induced Heating was Considered

Fig. A,26e Aerothermal Analysis for GAGE 9032 in STS-7

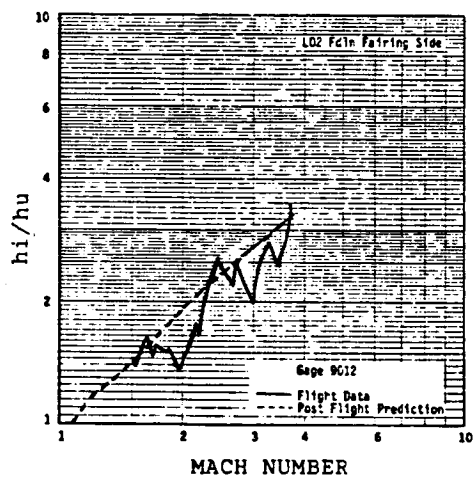
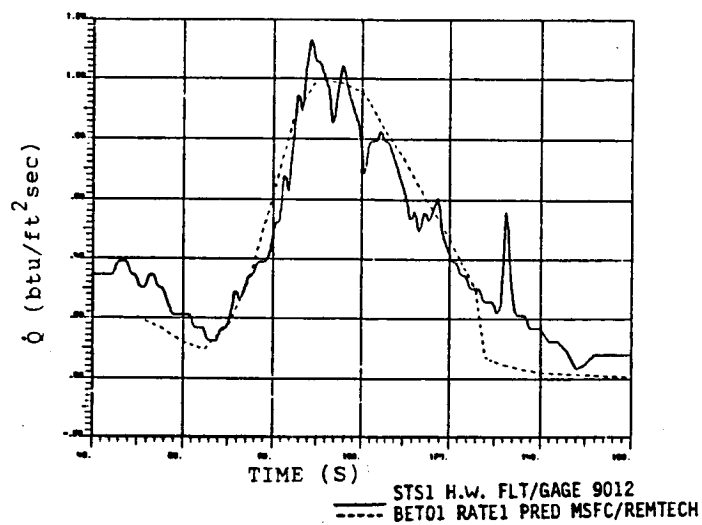


Fig. A.27a Aerothermal Analysis for Gage 9012 in STS-1

REMTECH INC.

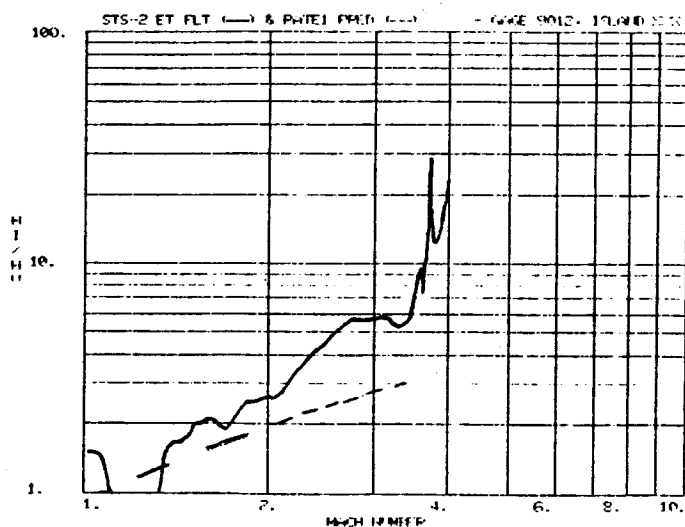
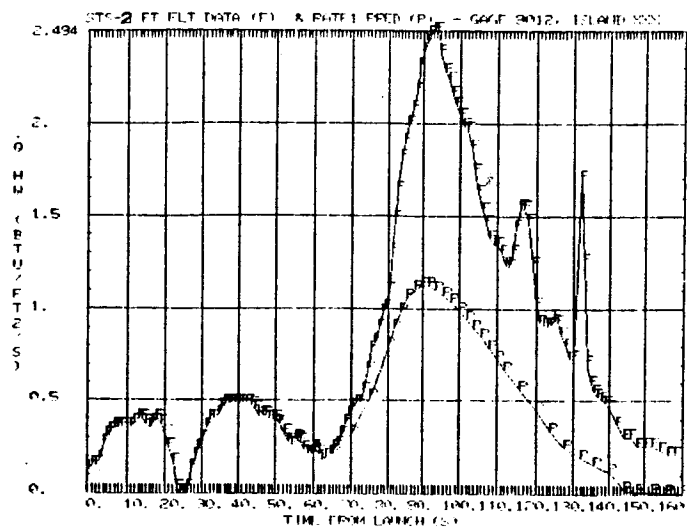


Fig. A.27b Aerothermal Analysis for Gage 9012 in STS-2

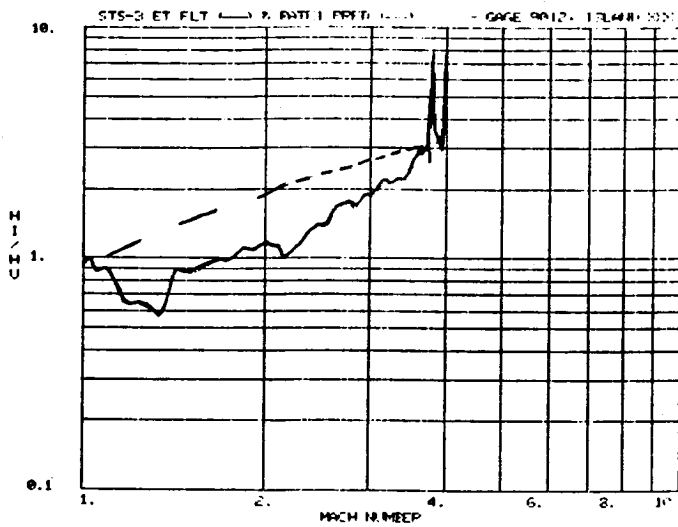
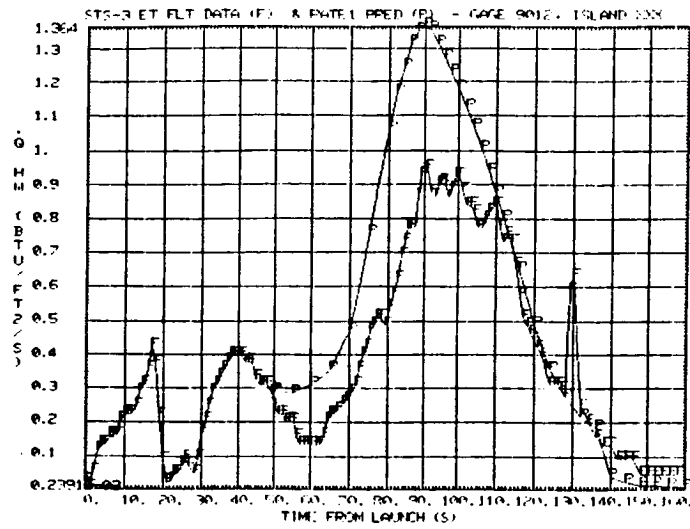


Fig. A.27c Aerothermal Analysis for Gage 9012 in STS-3

REMTECH INC.

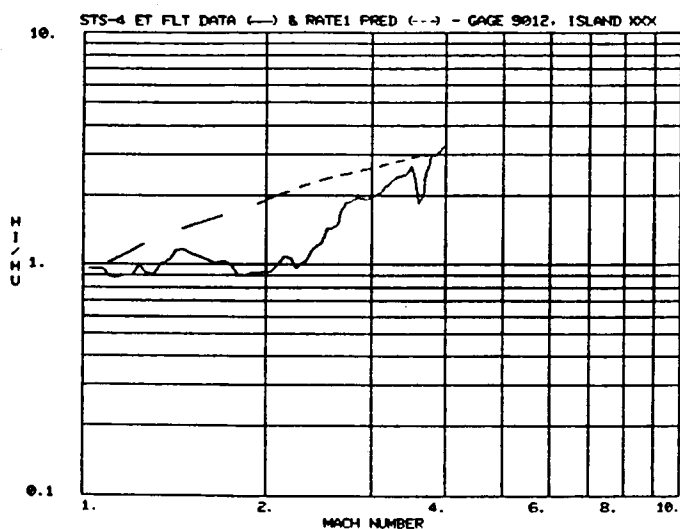
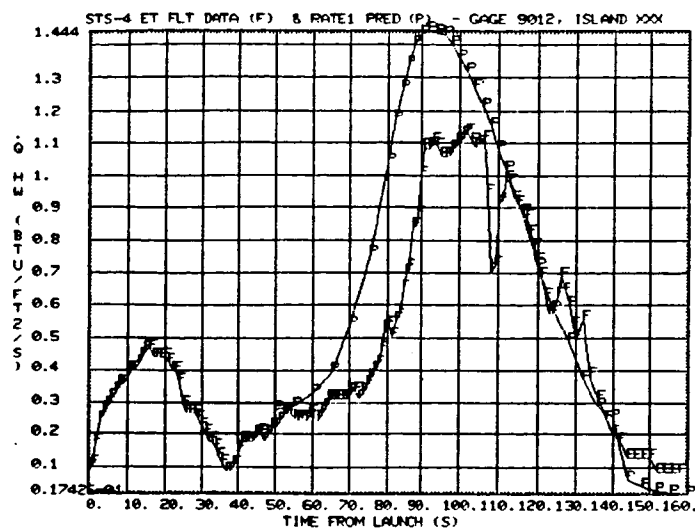


Fig. A.27d Aerothermal Analysis for Gage 9012 in STS-4

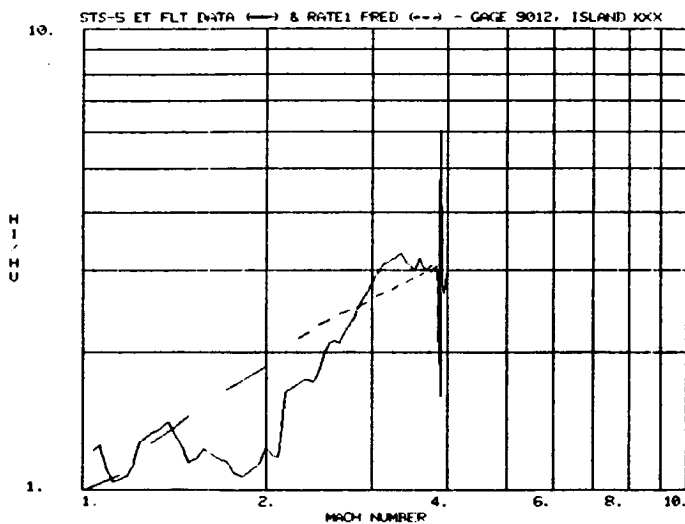
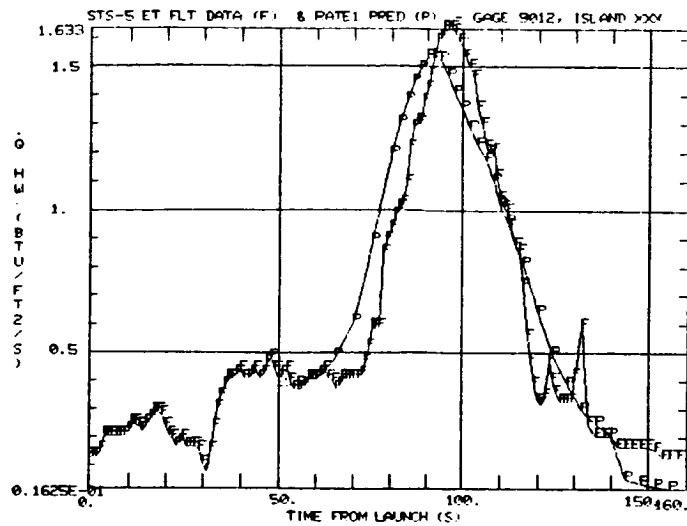


Fig. A.27e Aerothermal Analysis for Gage 9012 in STS-5

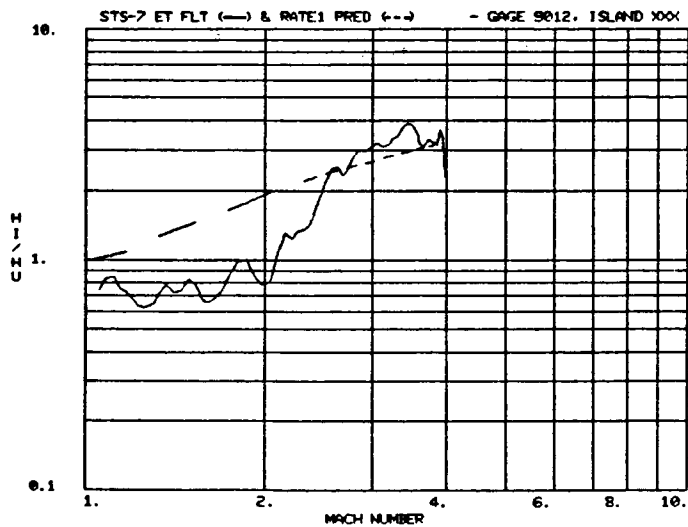
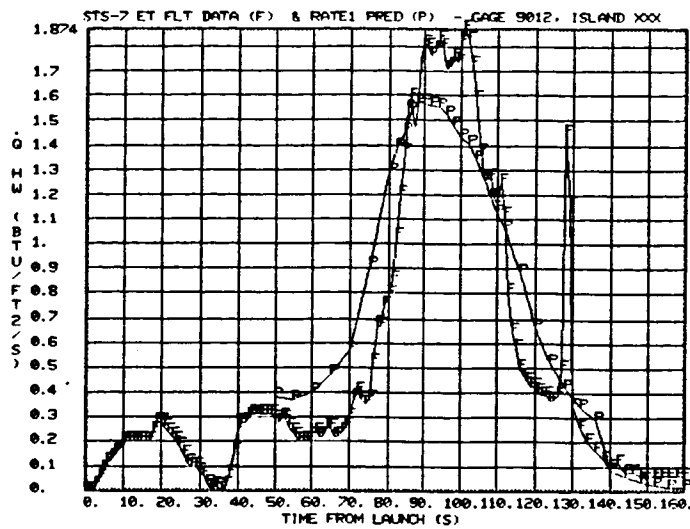


Fig. A.27f Aerothermal Analysis for Gage 9012 in STS-7

REMTECH INC.

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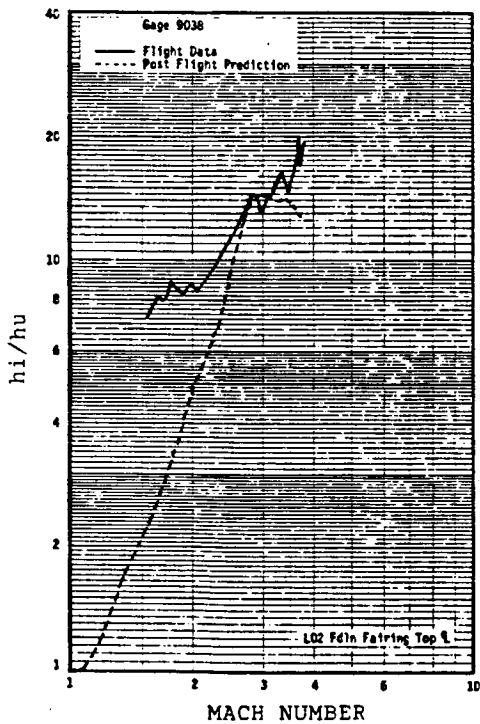
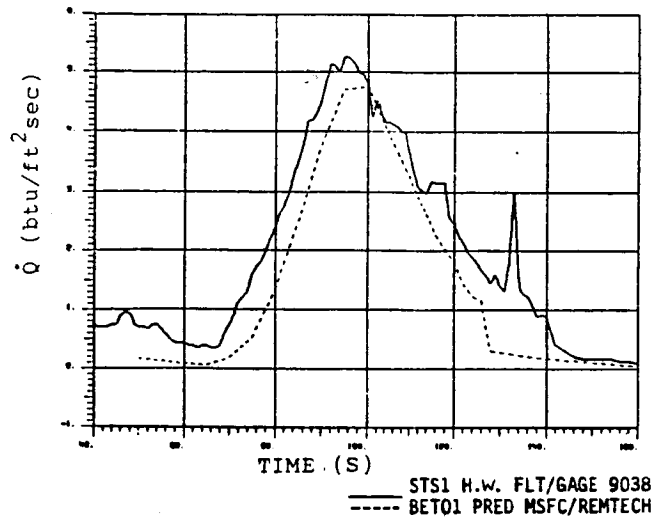


Fig. A.28a Aerothermal Analysis for Gage 9038 in STS-1

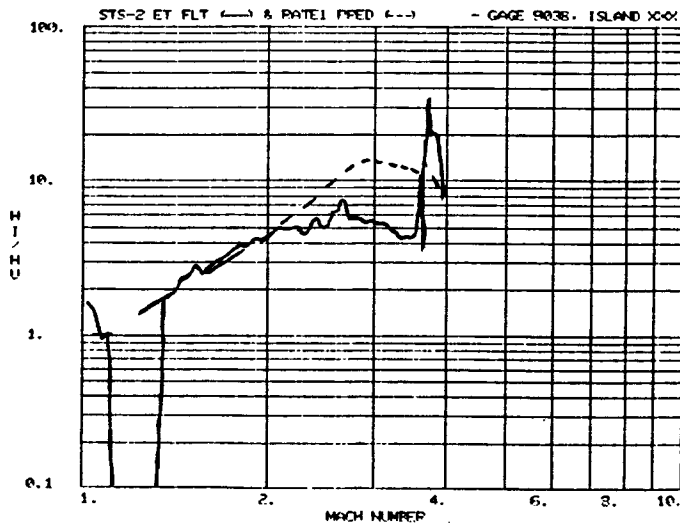
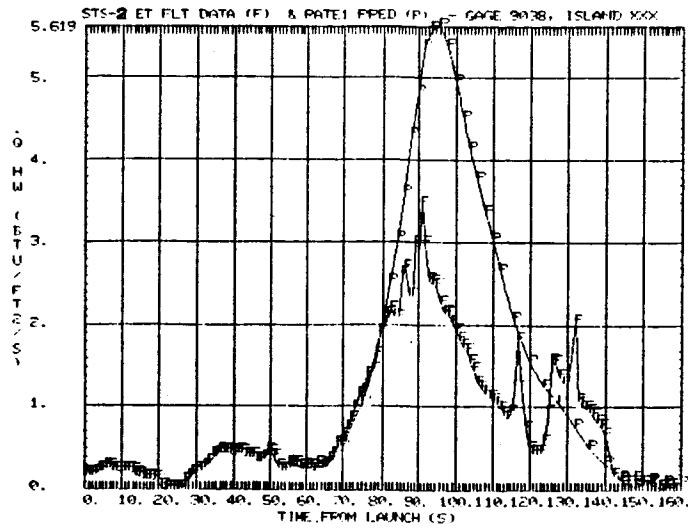


Fig. A.28b Aerothermal Analysis for Gage 9038 in STS-2

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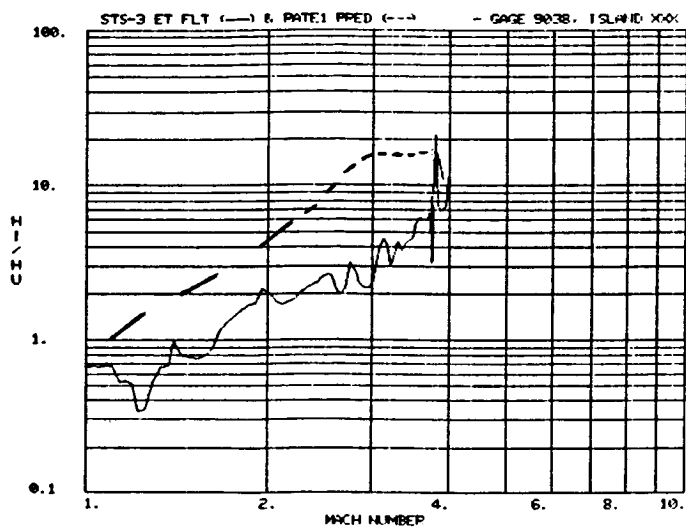
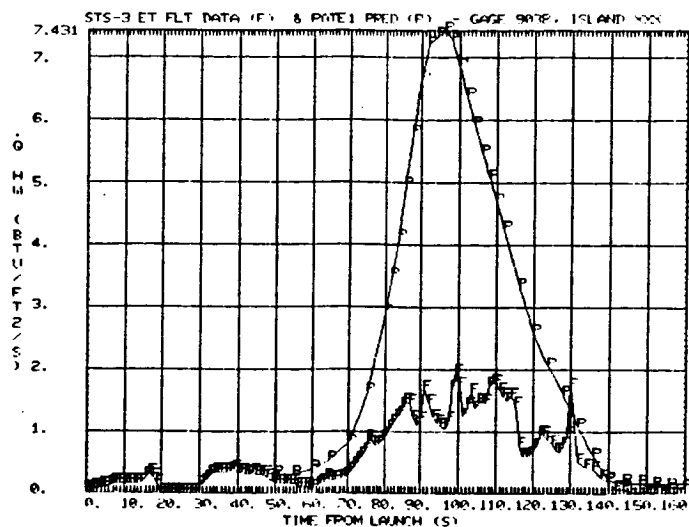


Fig. A.28c Aerothermal Analysis for Gage 9038 in STS-3

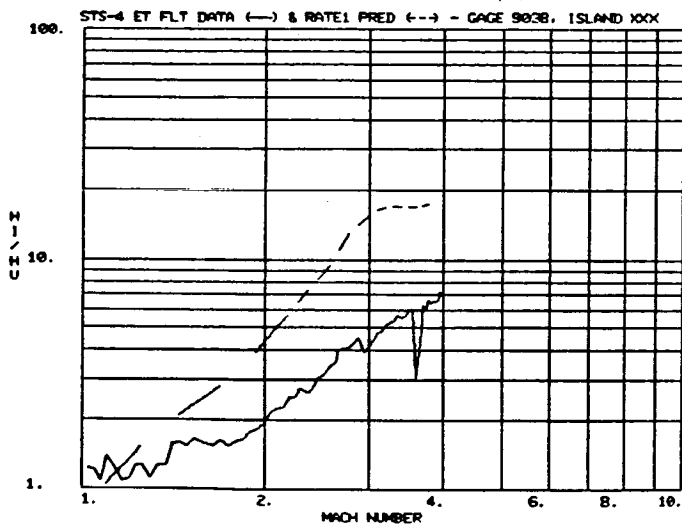
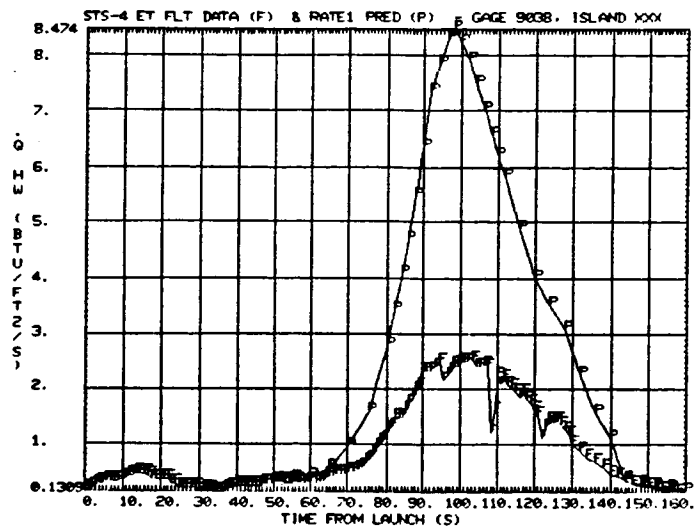


Fig. A.28d Aerothermal Analysis for Gage 9038 in STS-4

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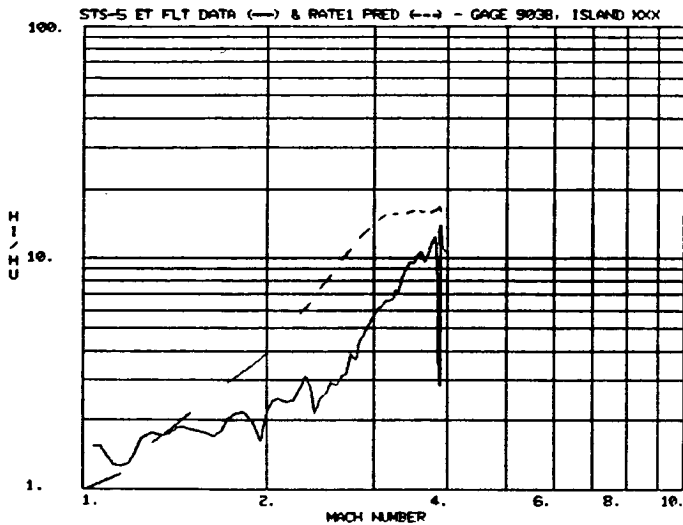
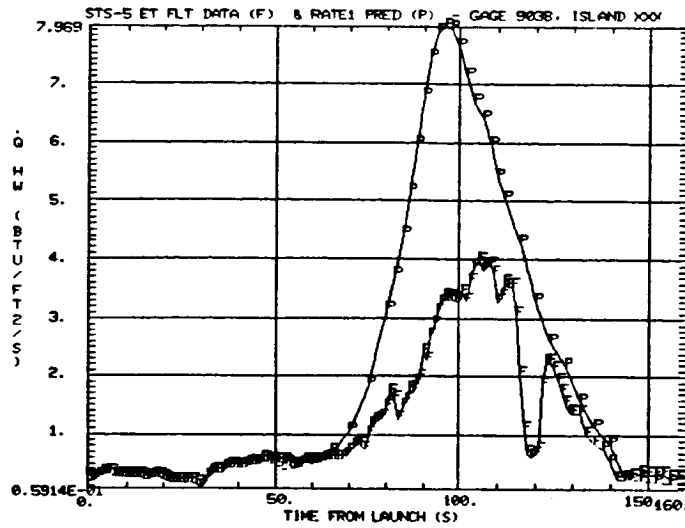


Fig. A_w28e Aerothermal Analysis for Gage 9038 in STS-5

REMTECH INC.

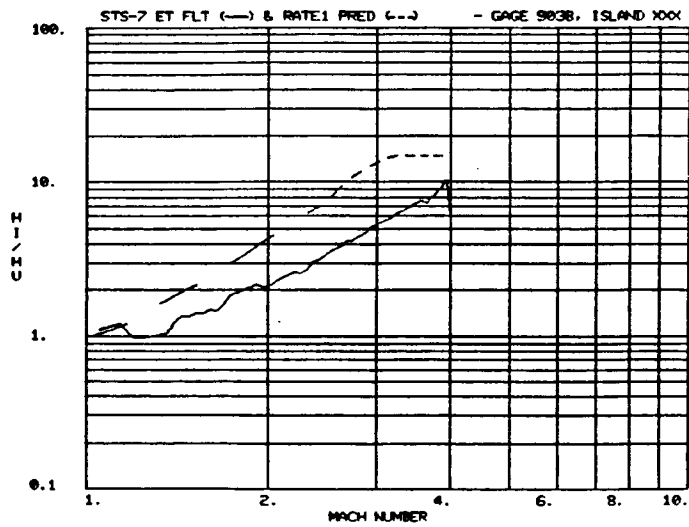
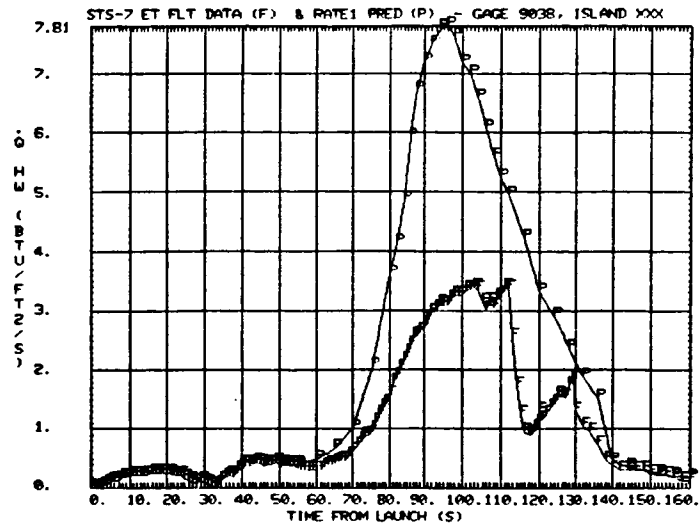


Fig. A.28f Aerothermal Analysis for Gage 9038 in STS-7

REMTECH INC.

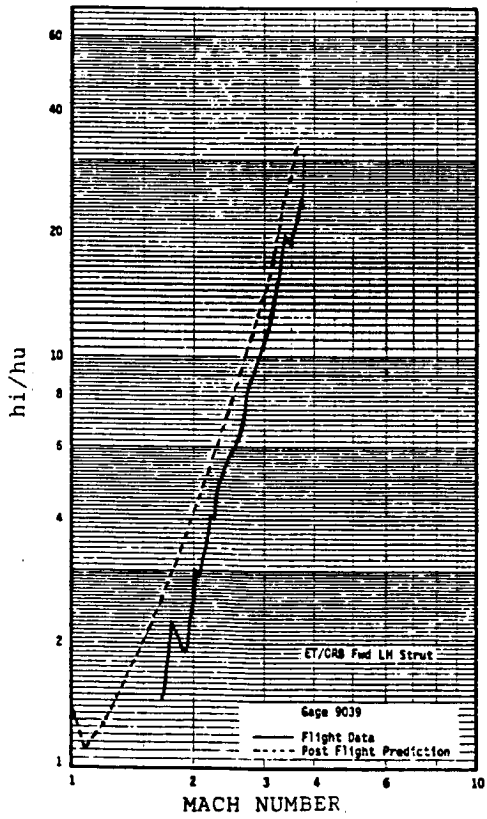
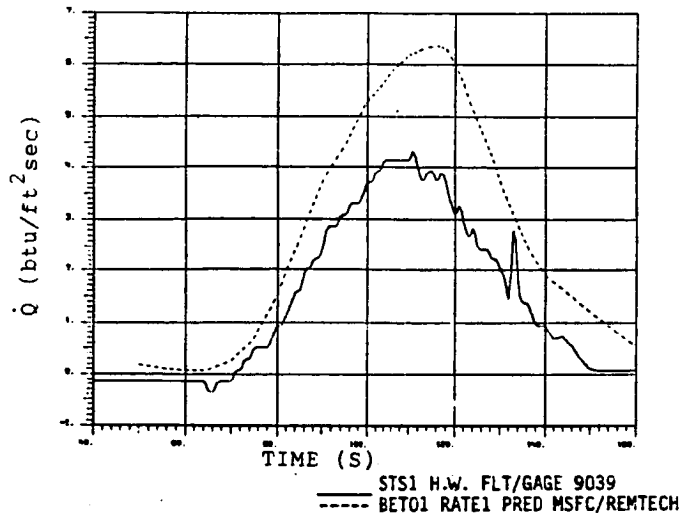


Fig. A.29a Aerothermal Analysis for Gage 9039 in STS-1

REMTECH INC.

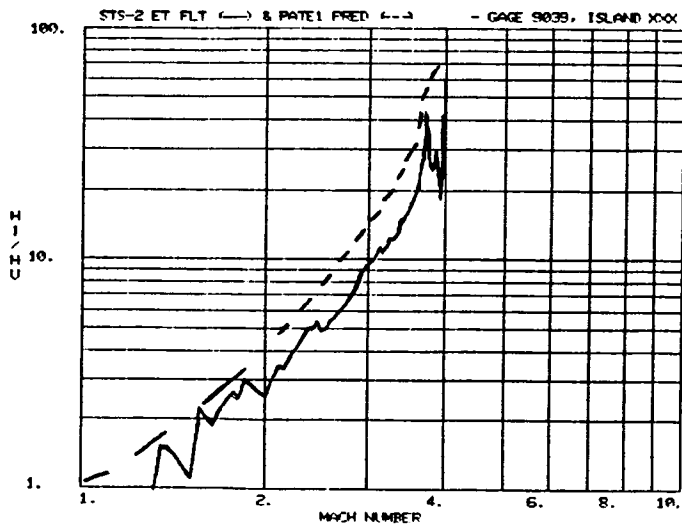
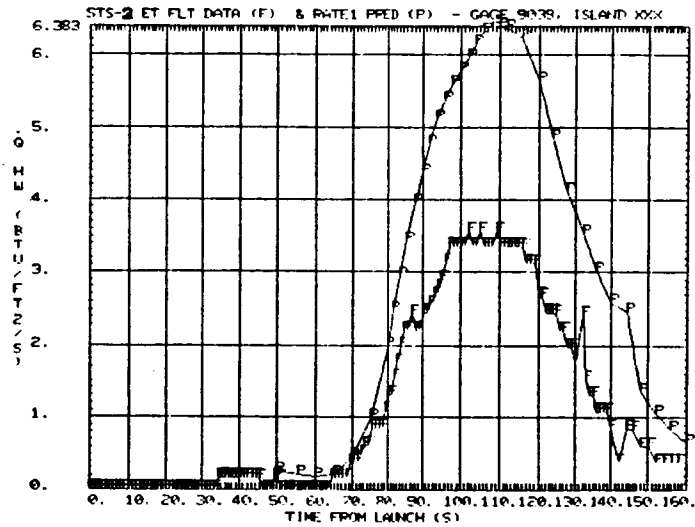


Fig. A.29b Aerothermal Analysis for Gage 9039 in STS-2

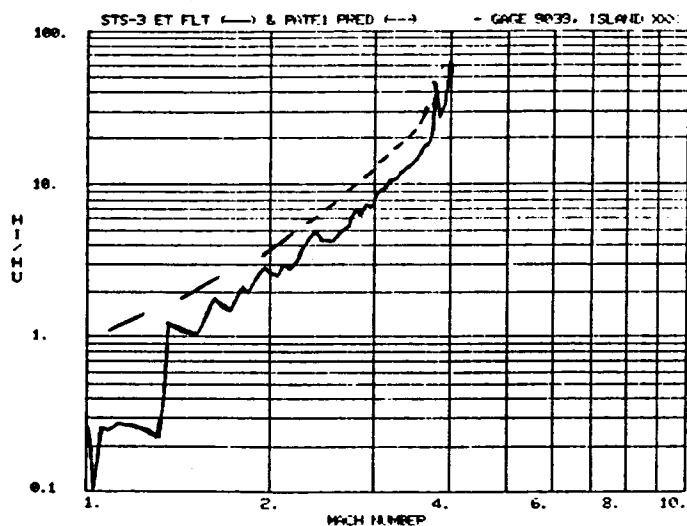
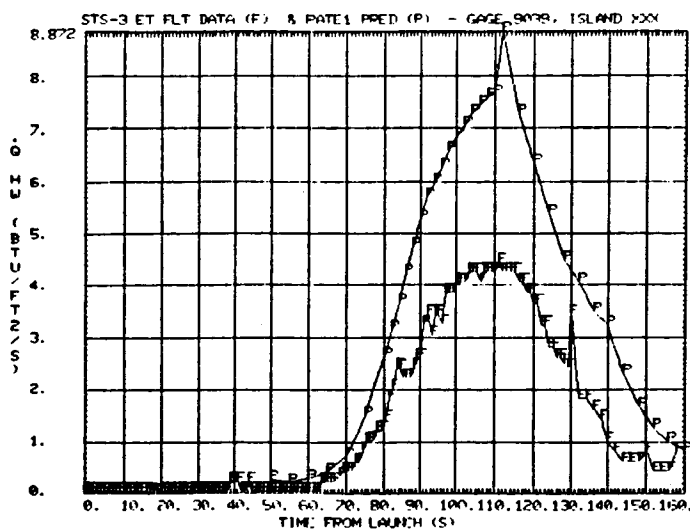


Fig. A.29c Aerothermal Analysis for Gage 9039 in STS-3

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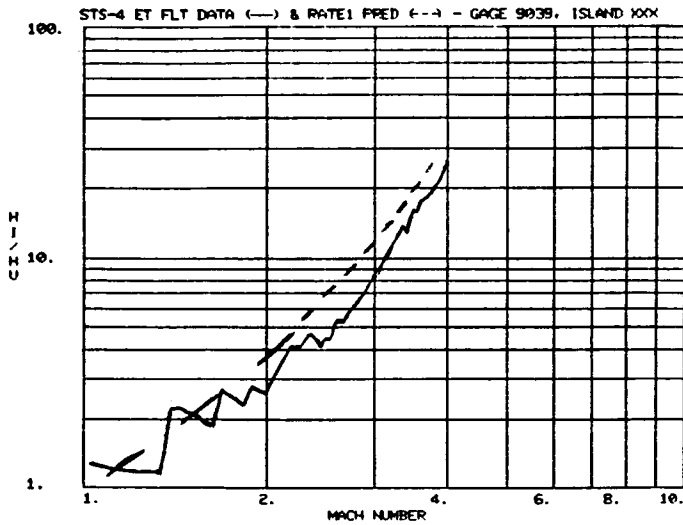
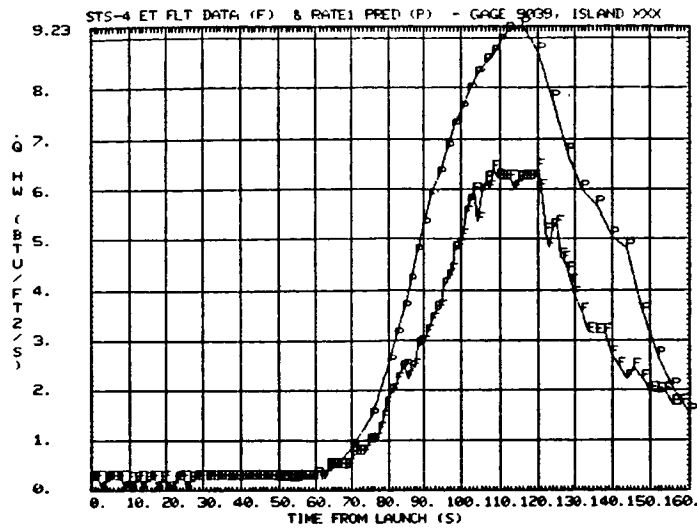


Fig. A:29d Aerothermal Analysis for Gage 9039 in STS-4

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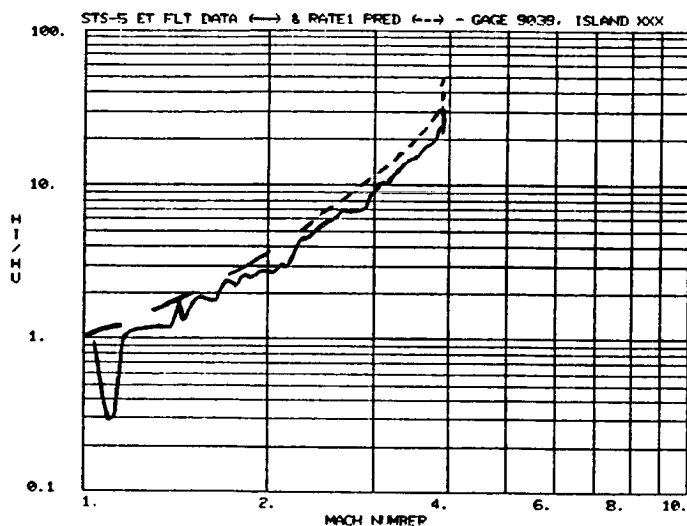
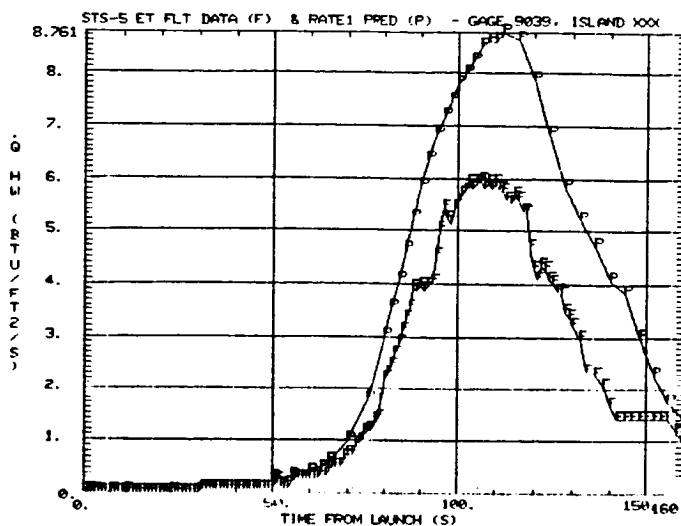


Fig. A.29e Aerothermal Analysis for Gage 9039 in STS-5

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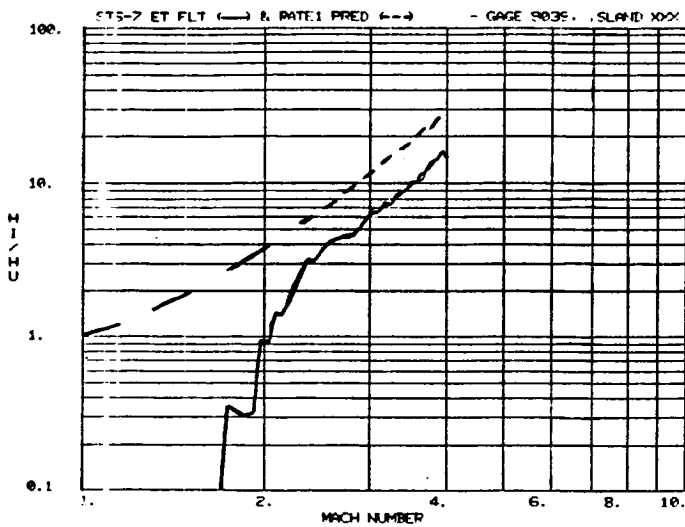
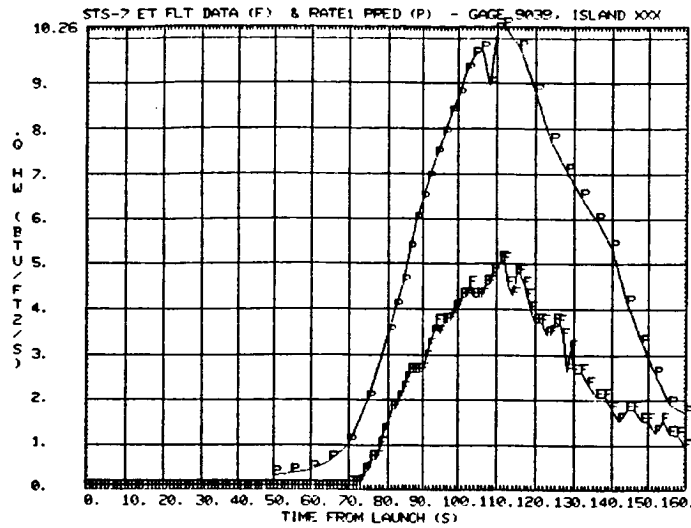


Fig. A.29f Aerothermal Analysis for Gage 9039 in STS-7

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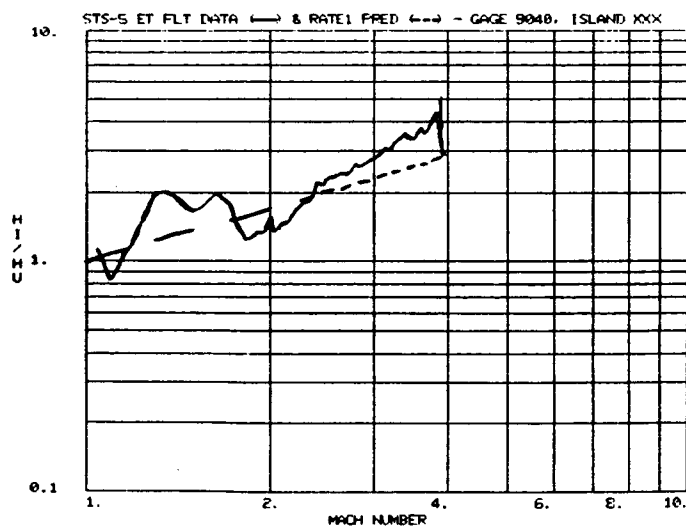
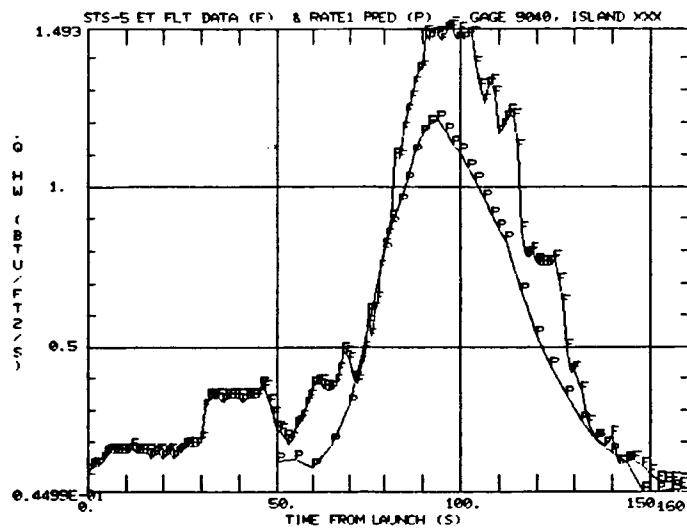
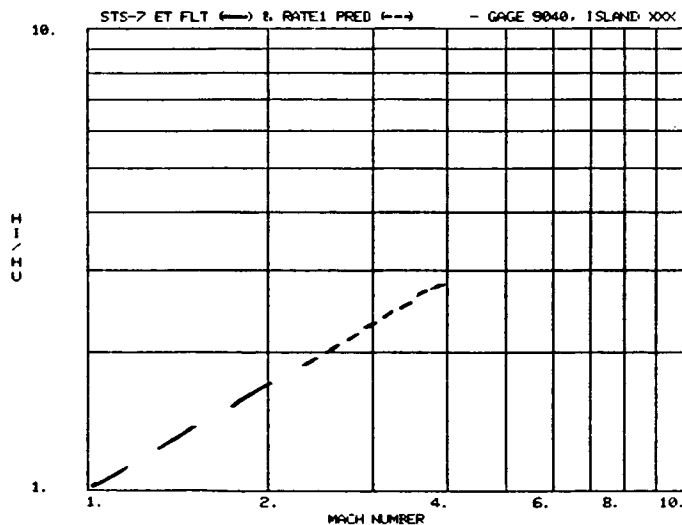
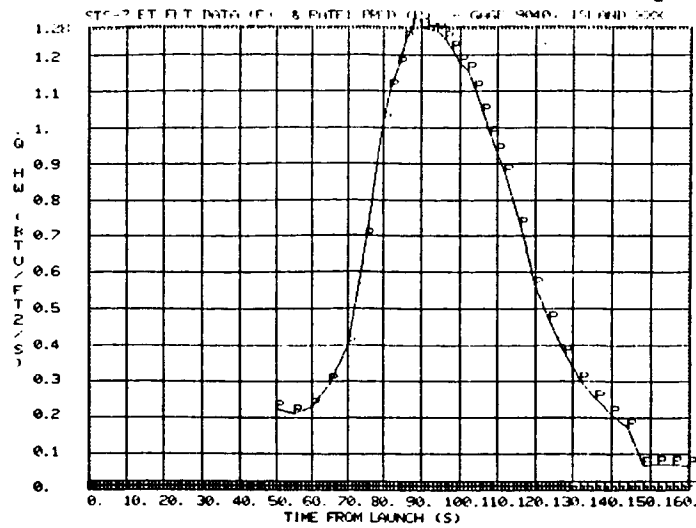


Fig. A.30a Aerothermal Analysis for Gage 9040 in STS-5



NOTE:

- Bad Heating Rate Measurements

Fig. A.30b Aerothermal Analysis for Gage 9040 in STS-7

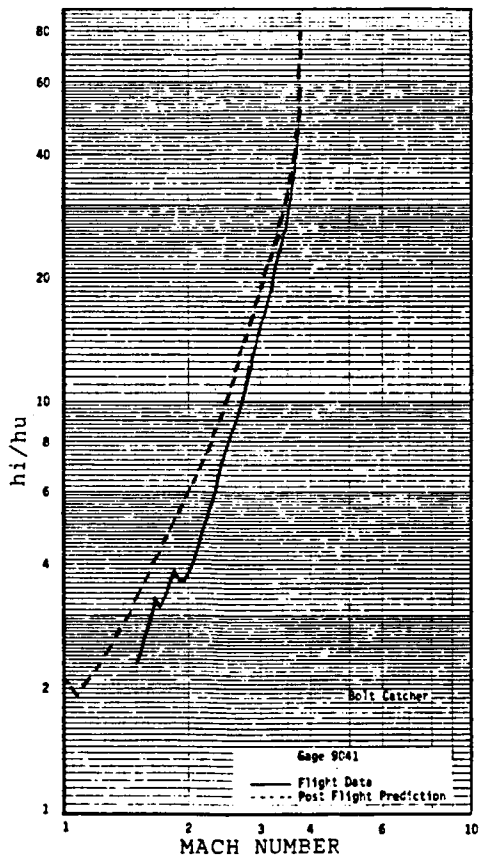
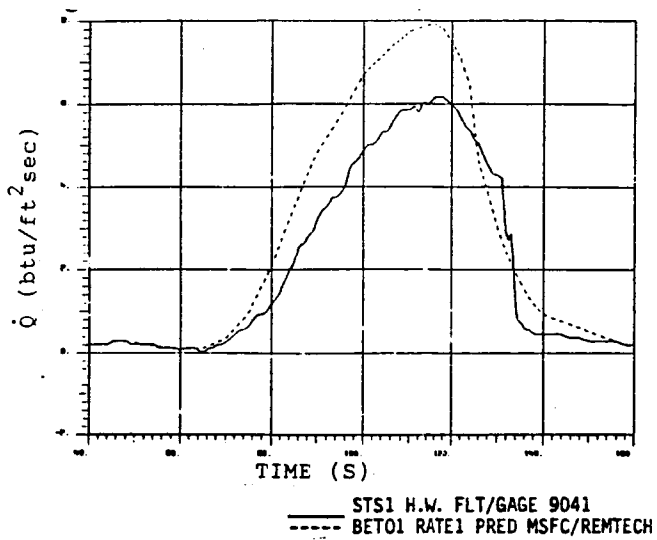


Fig. A.31a Aerothermal Analysis for Gage 9041 in STS-1

REMTECH INC.

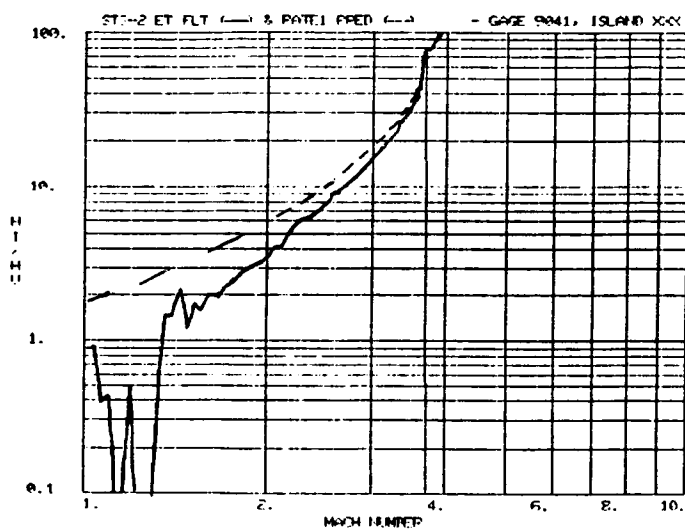
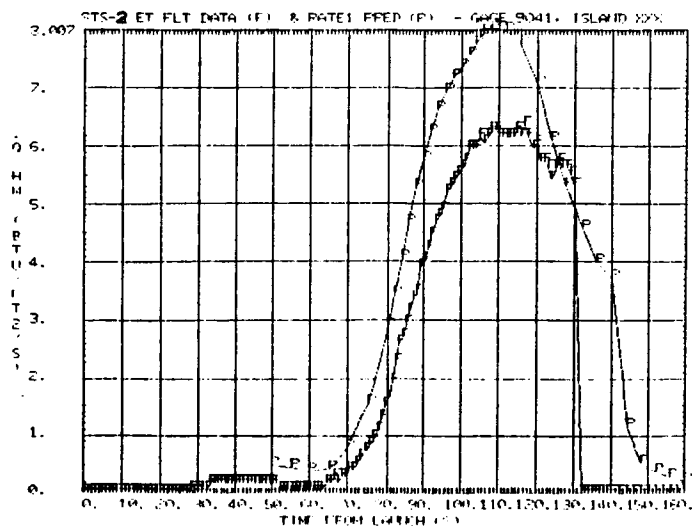


Fig. A.31b Aerothermal Analysis for Gage 9041 in STS-2

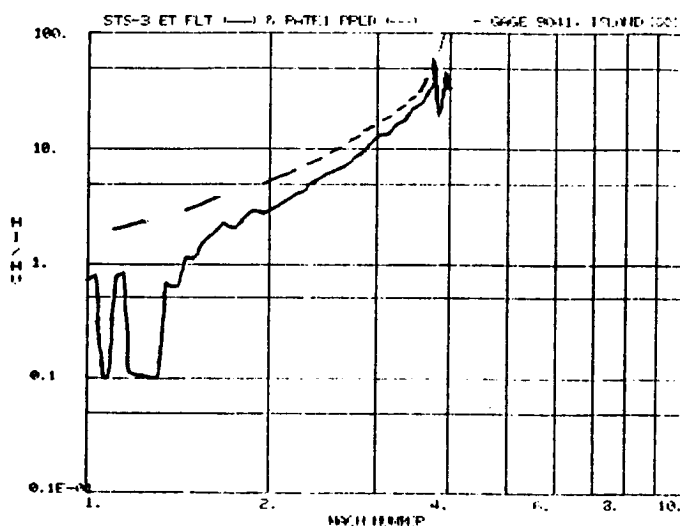
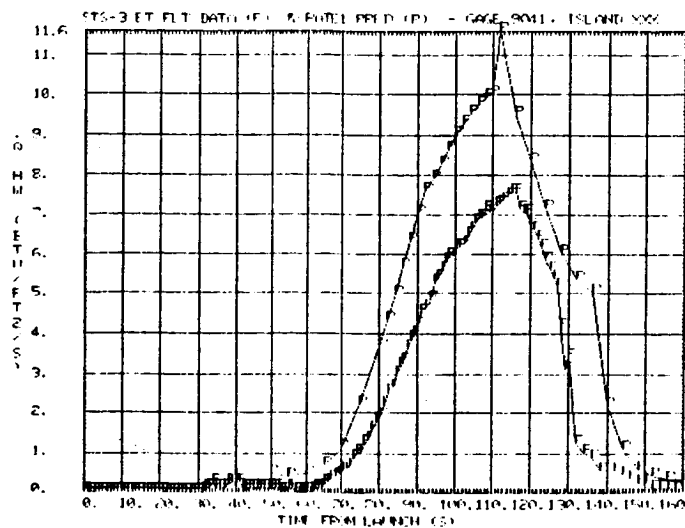


Fig. A.31c Aerothermal Analysis for Gage 9041 in STS-3

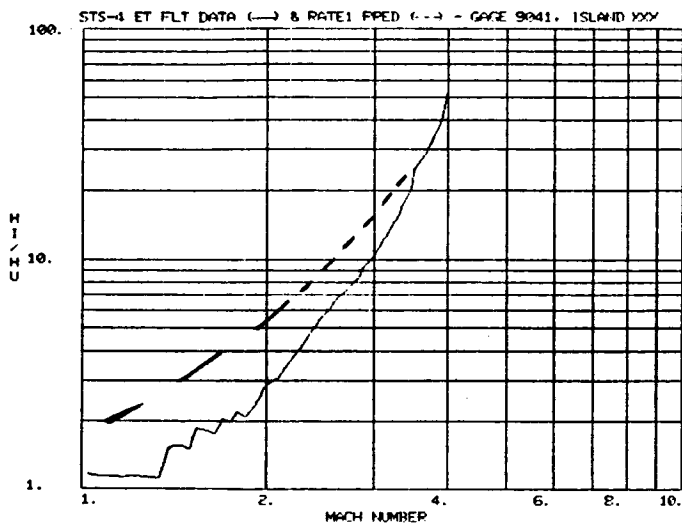
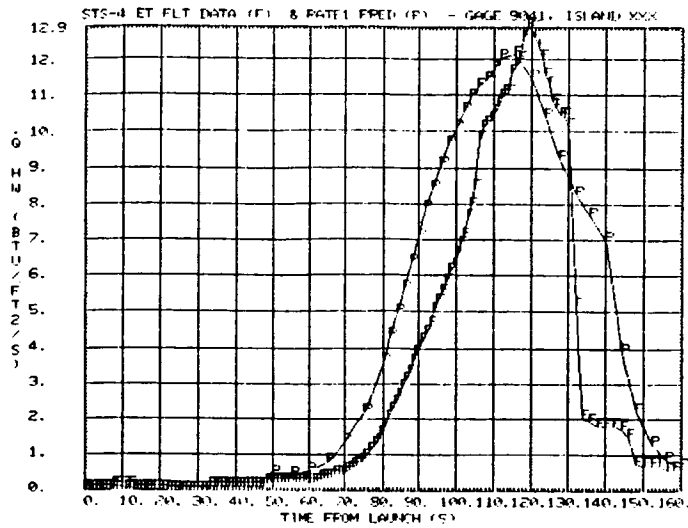


Fig. A.31d Aerothermal Analysis for Gage 9041 in STS-4

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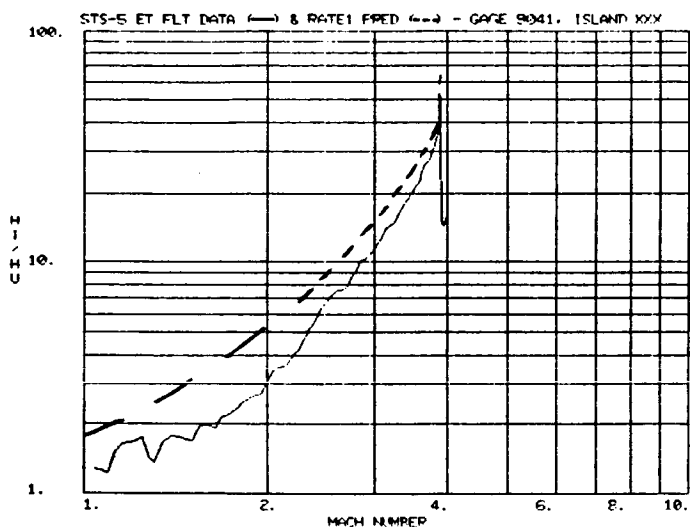
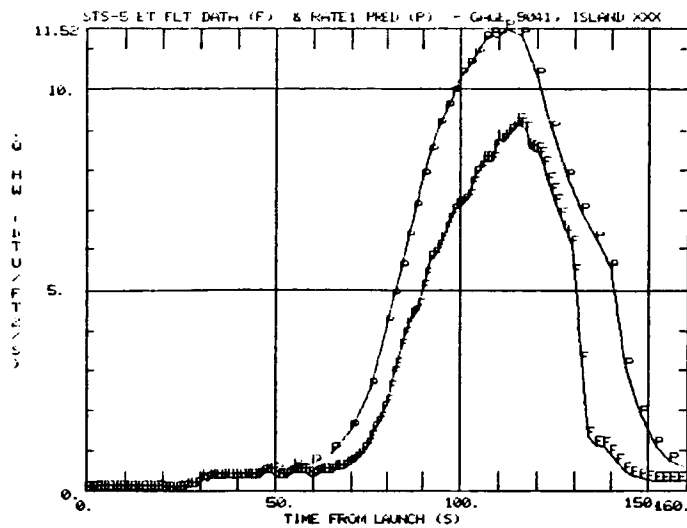


Fig. A.31e Aerothermal Analysis for Gage 9041 in STS-5

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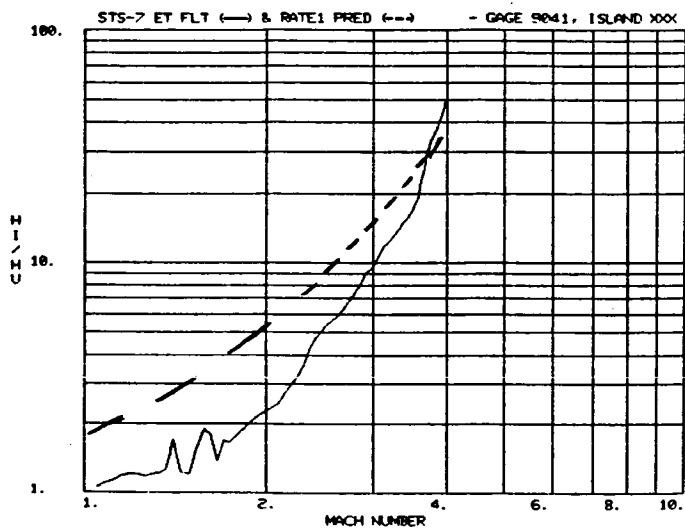
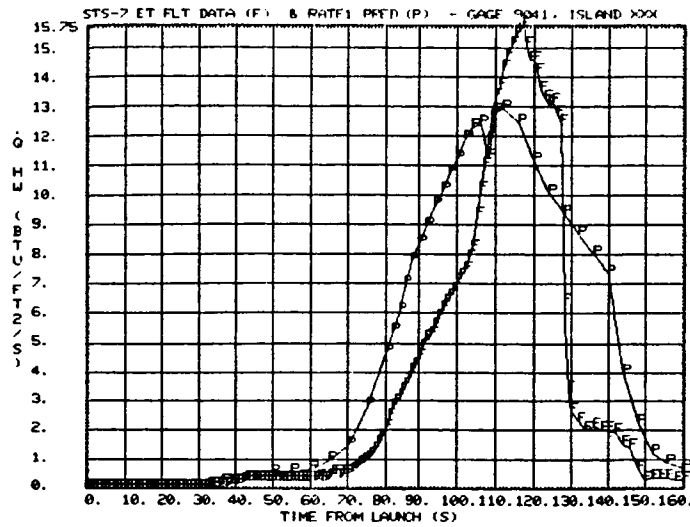
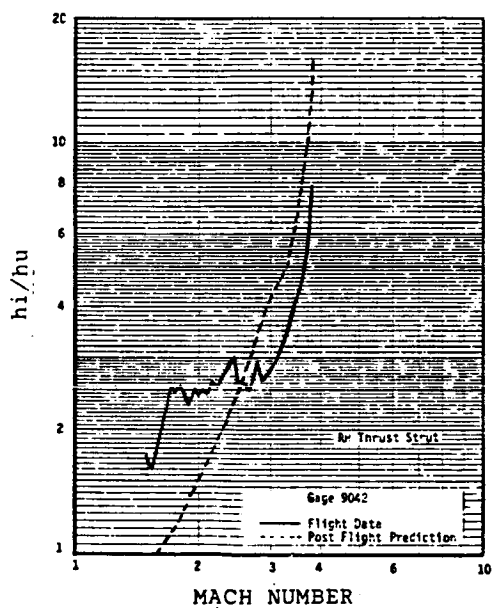
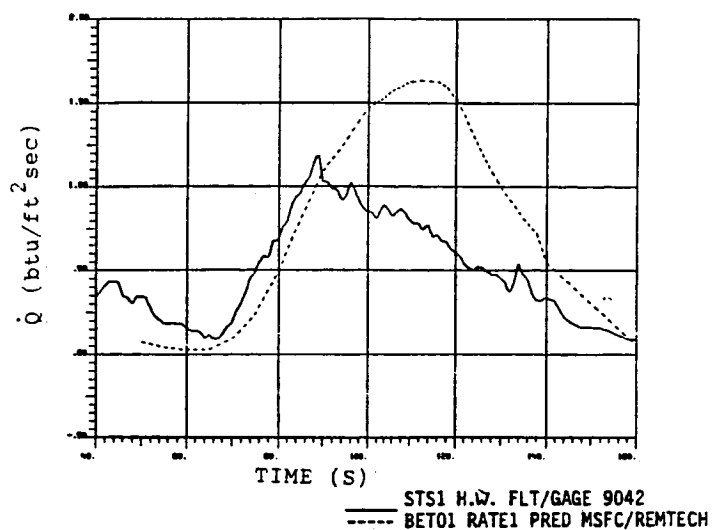


Fig. A.31f Aerothermal Analysis for GAGE 9041 in STS-7



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Fig. A.32a Aerothermal Analysis for Gage 9042 in STS-1

REMTECH INC.

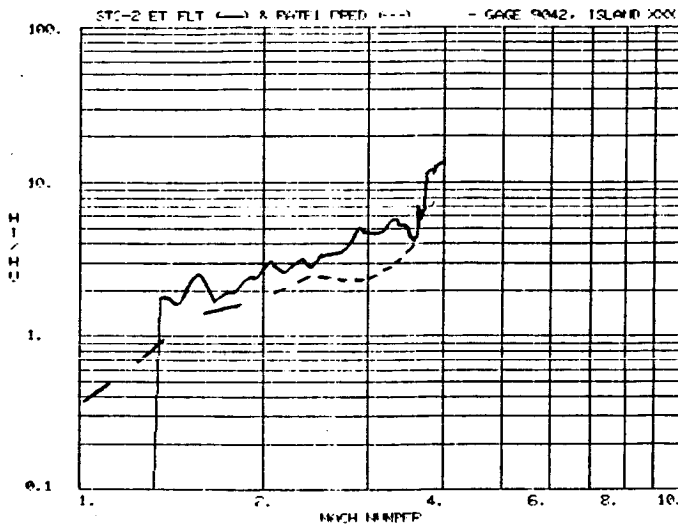
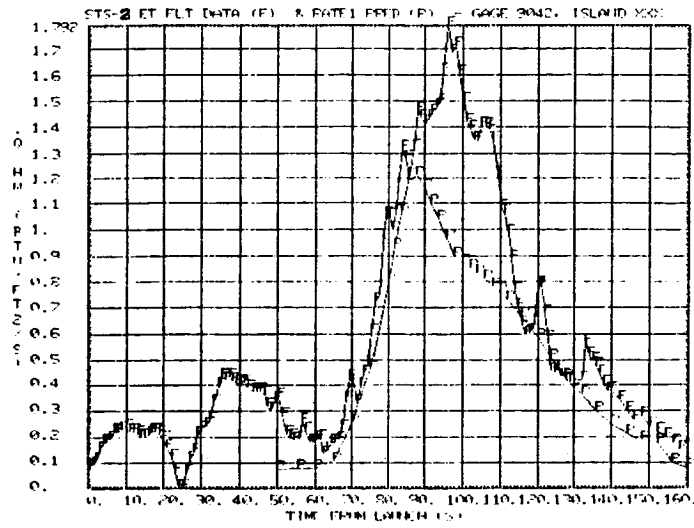


Fig. A.32b Aerothermal Analysis for Gage 9042 in STS-2

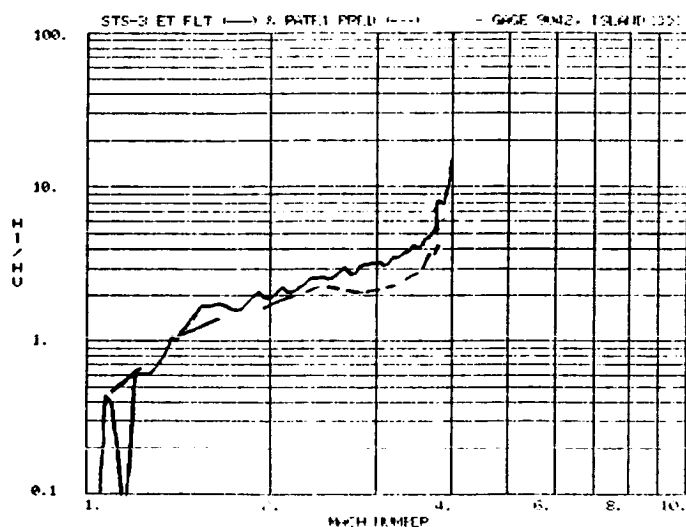
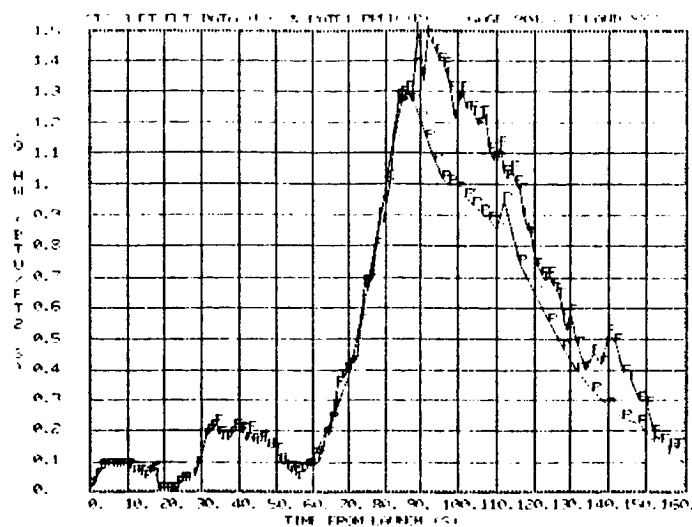


Fig. A.32c Aerothermal Analysis for Gage 9042 in STS-3

REMTECH INC.

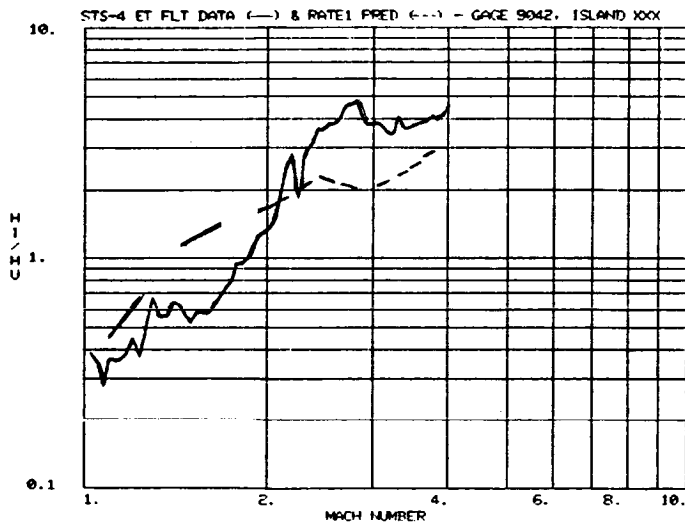
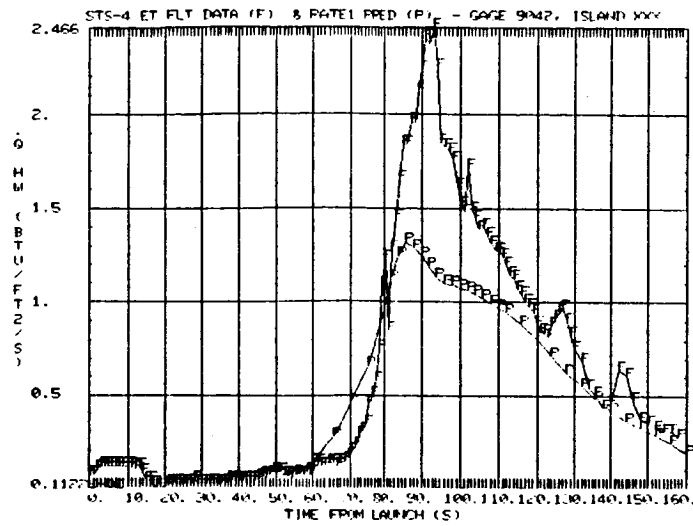


Fig. A.32d Aerothermal Analysis for Gage 9042 in STS-4

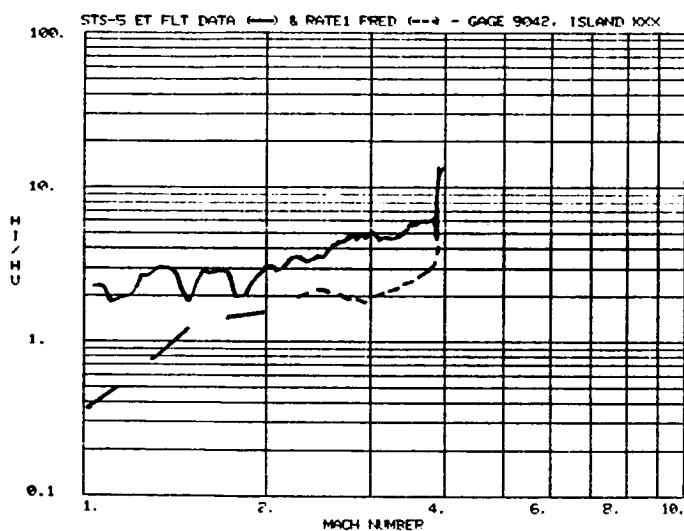
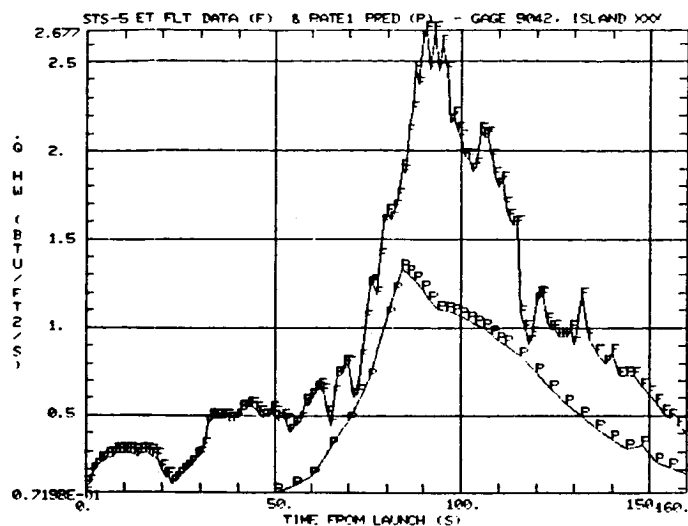


Fig. A.32e Aerothermal Analysis for Gage 9042 in STS-5

REMTECH INC.

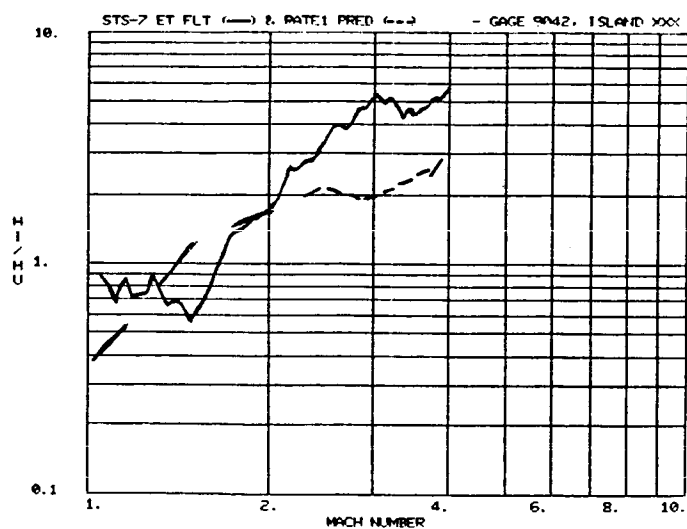
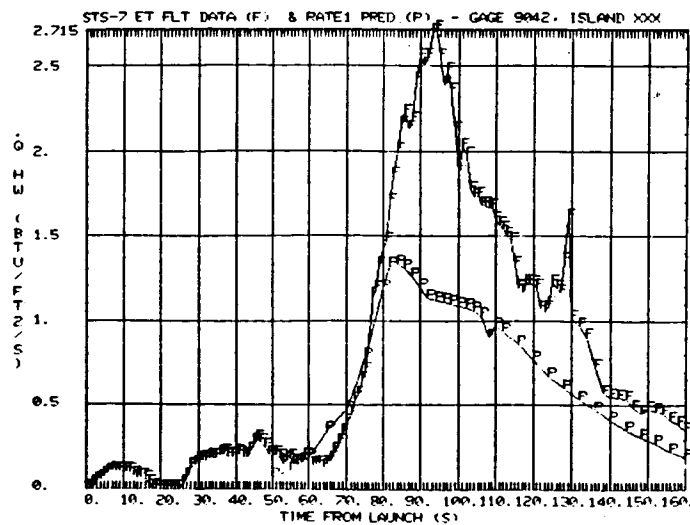


Fig. A.32f Aerothermal Analysis for Gage 9042 in STS-7

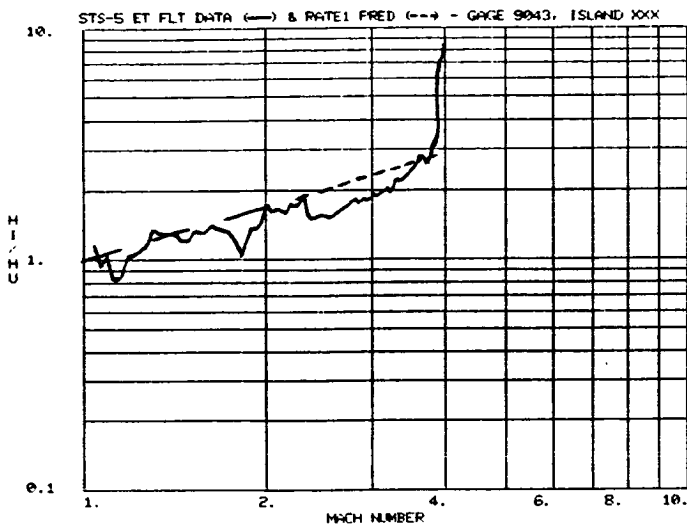
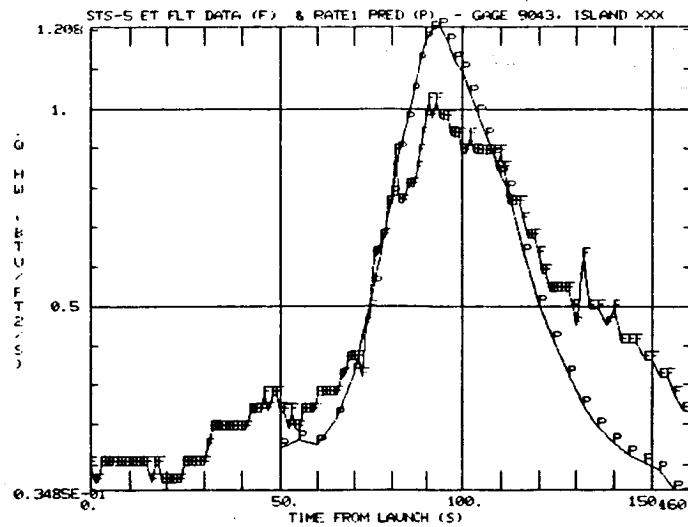


Fig. A.33a Aerothermal Analysis for Gage 9043 in STS-5

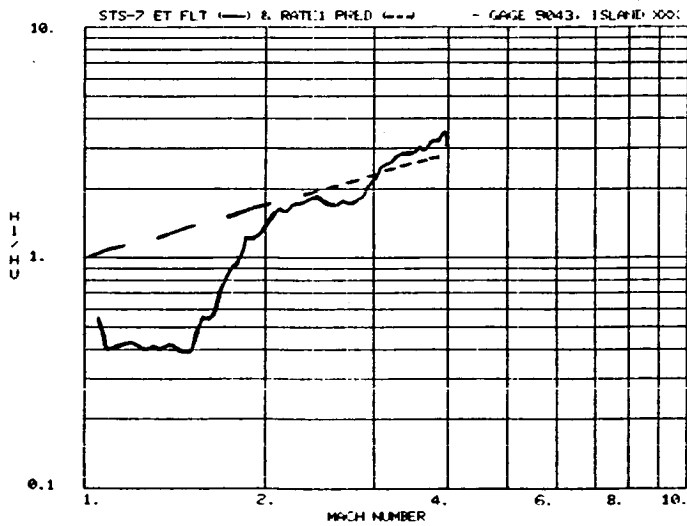
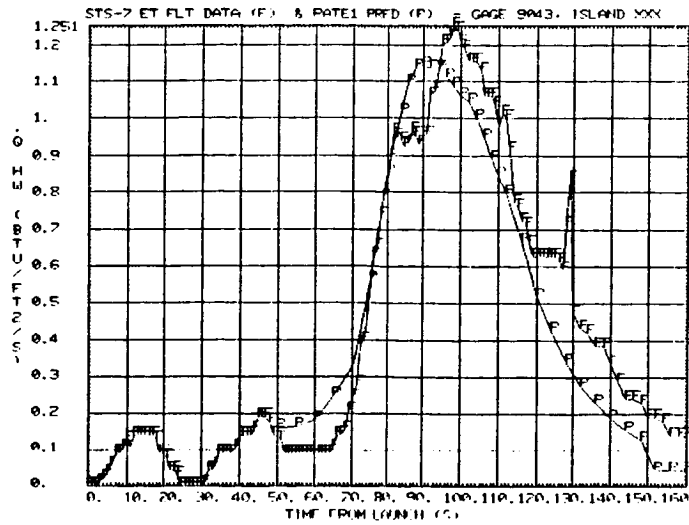
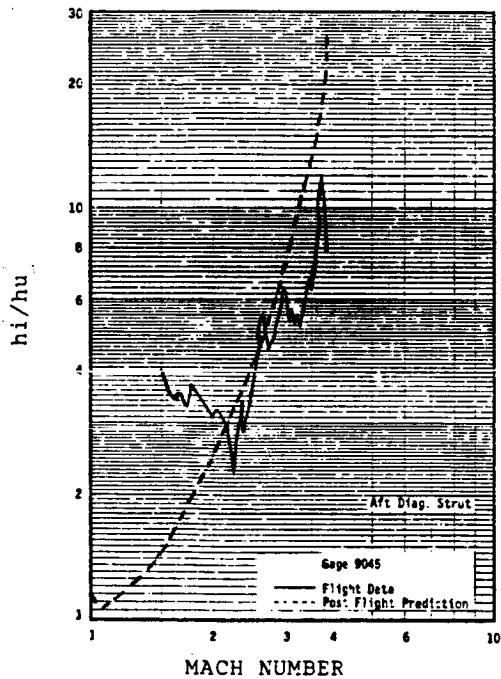
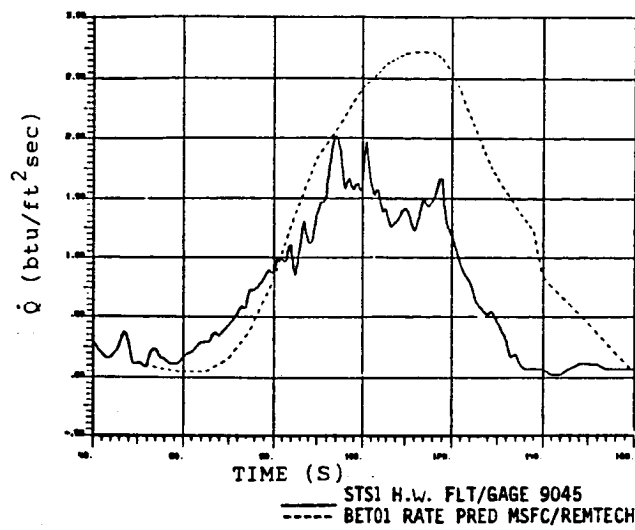


Fig. A.33b Aerothermal Analysis for Gage 9043 in STS-7

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Fig. A.34a Aerothermal Analysis for Gage 9045 in STS-1

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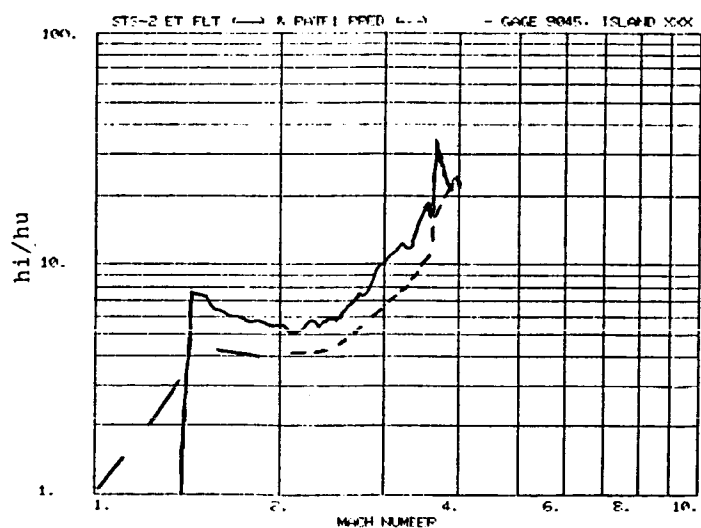
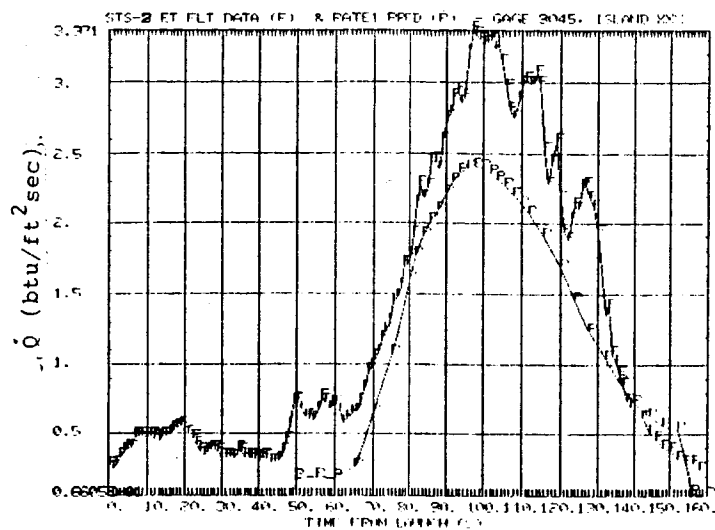


Fig. A.34b Aerothermal Analysis for Gage 9045 in STS-2

REMTECH INC.

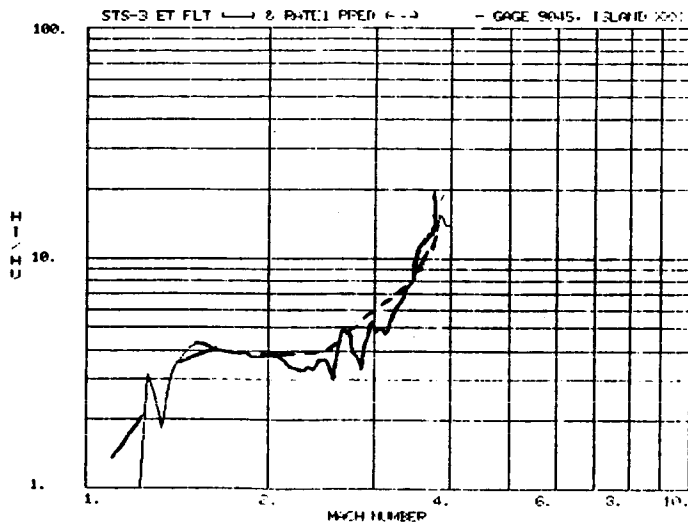
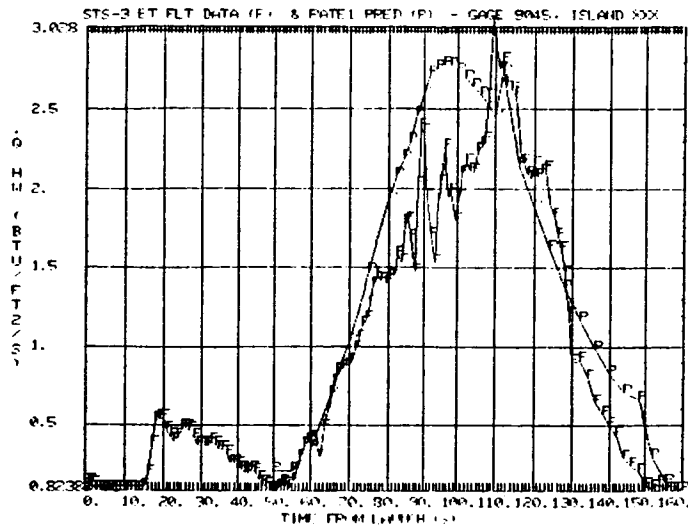


Fig. A.34c Aerothermal Analysis for Gage 9045 in STS-3

REMTECH INC.

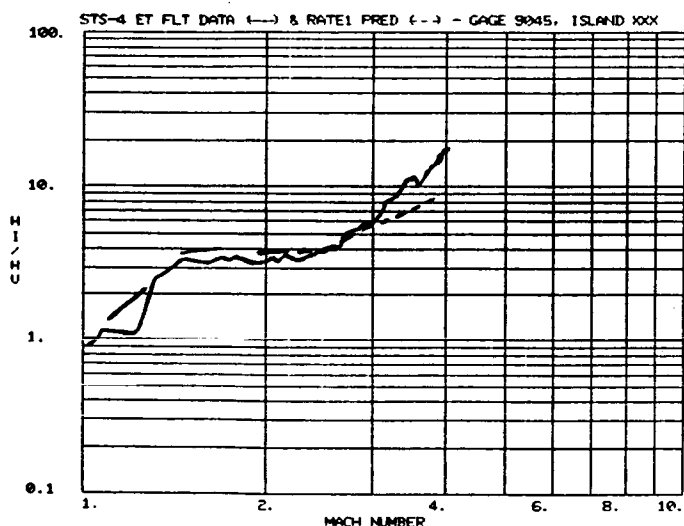
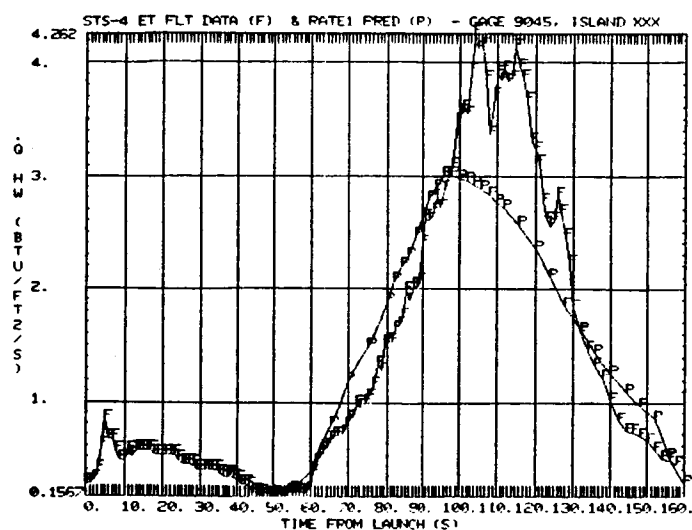


Fig. A.34d Aerothermal Analysis for Gage 9045 in STS-4

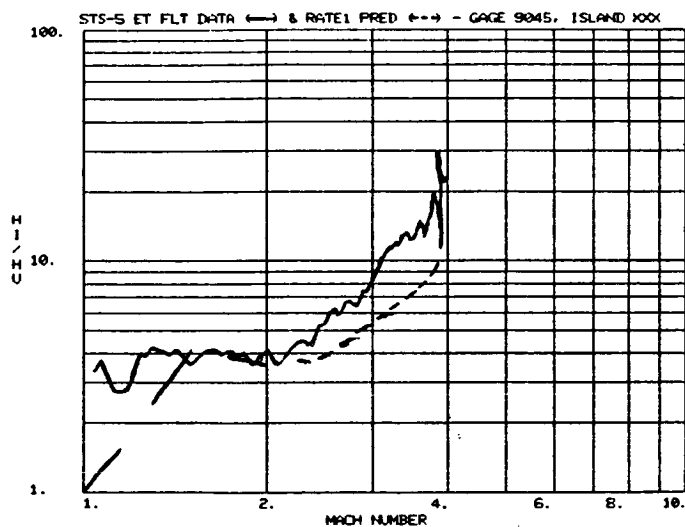
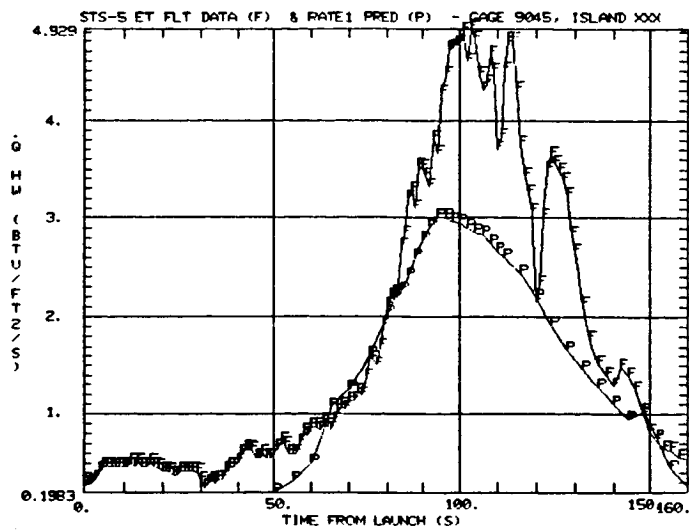


Fig. A.34e Aerothermal Analysis for Gage 9045 in STS-5

REMTECH INC.

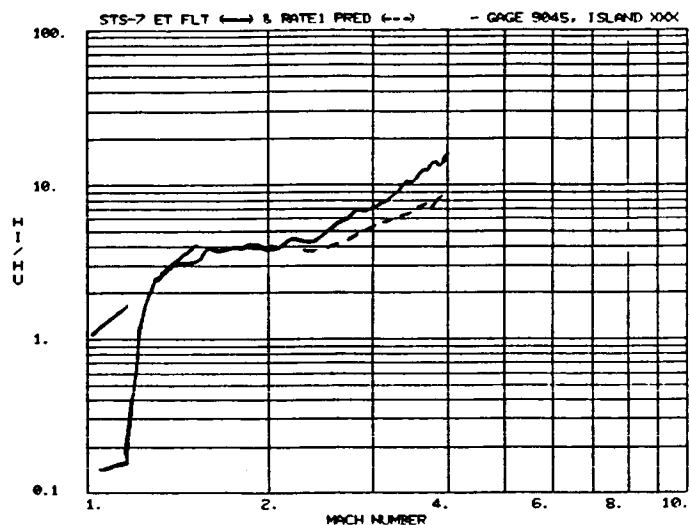
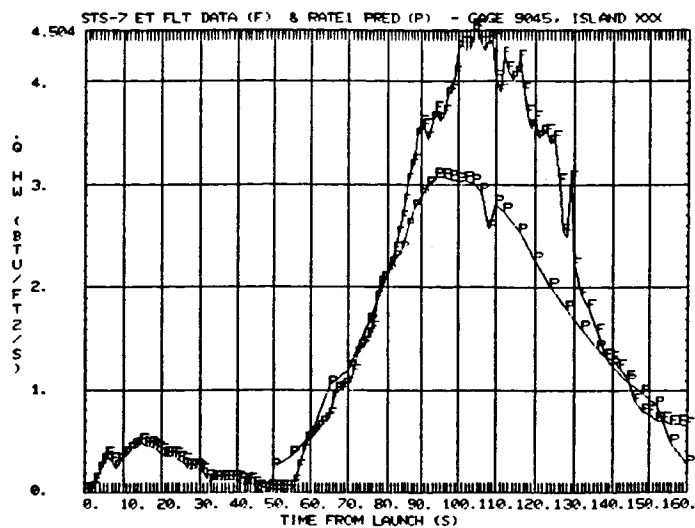


Fig. A.34f Aerothermal Analysis for Gage 9045 in STS-7

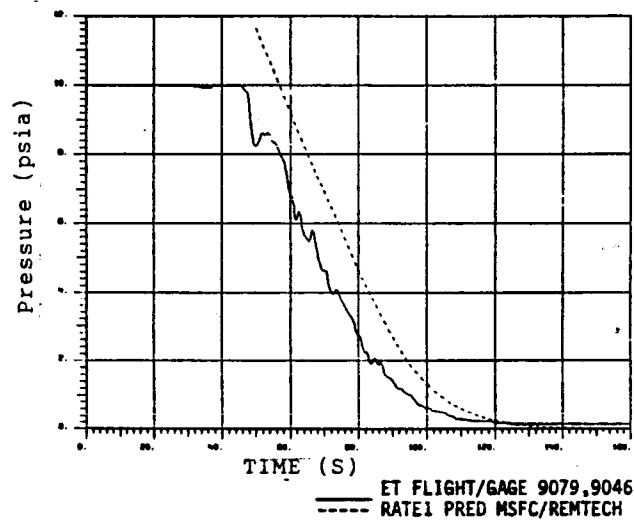
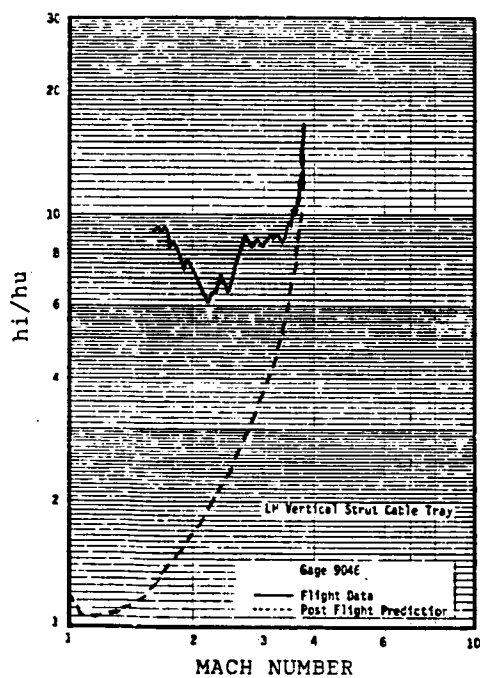
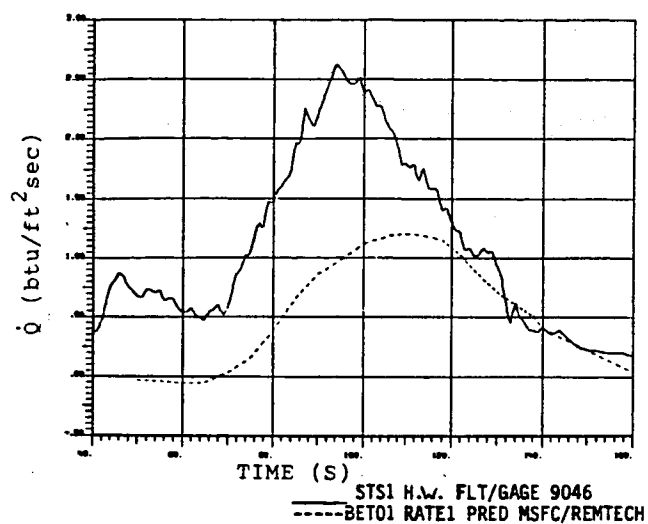
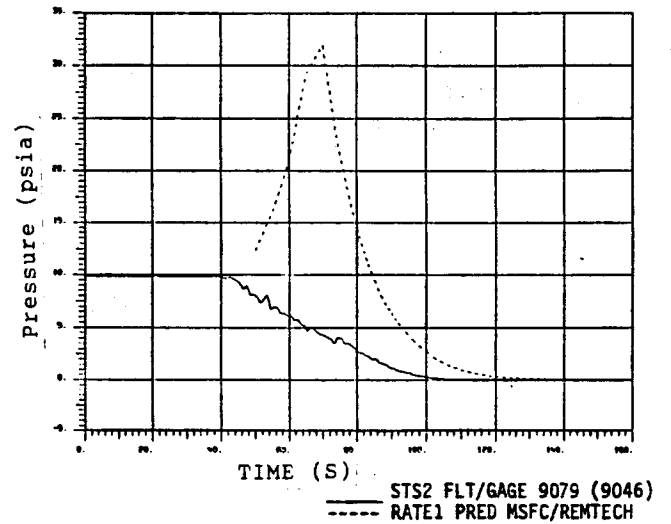
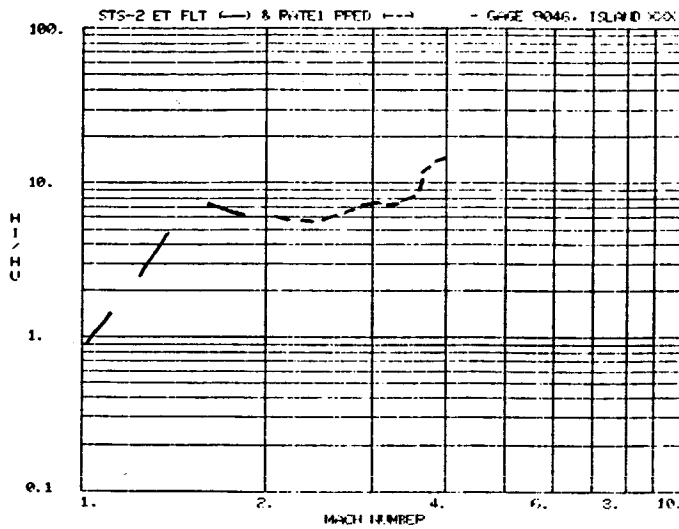


Fig. A,35a Aerothermal Analysis for Gage 9046 in STS-1

Red measured data



NOTE:
● Bad Heating Rate Measurements

Fig. A.35b Aerothermal Analysis for Gage 9046 in STS-2

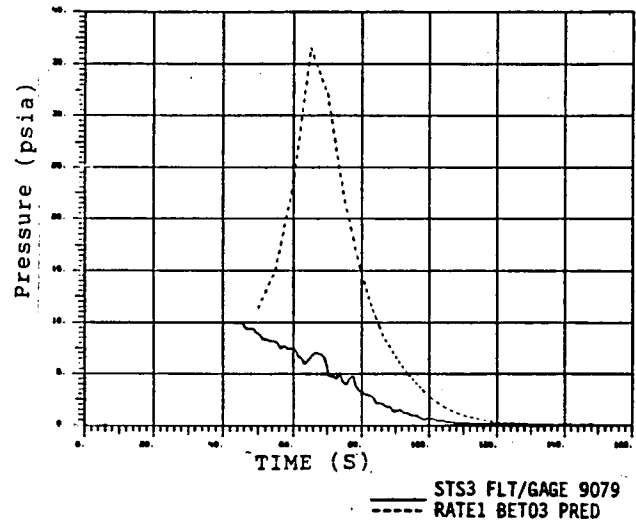
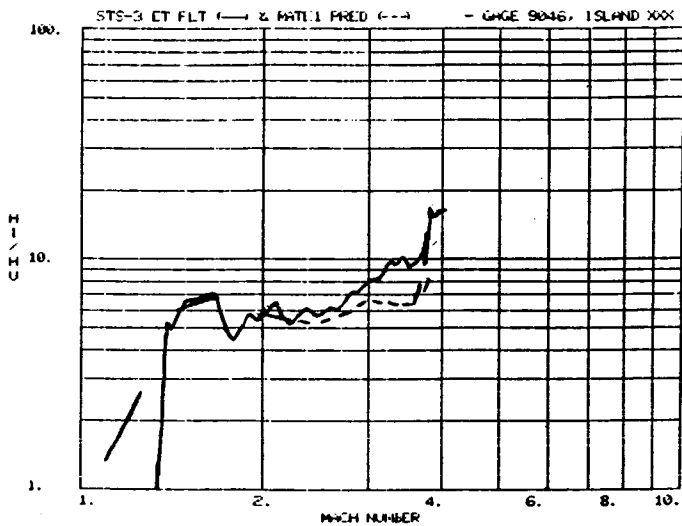
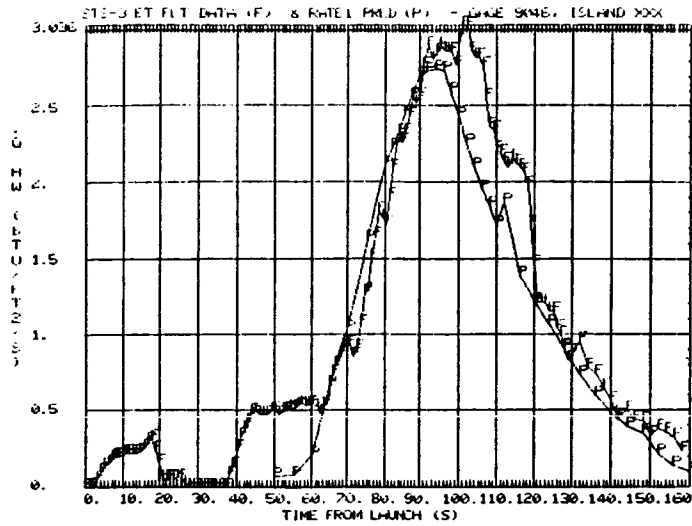


Fig. A.35c Aeroheating Analysis for Gage 9046 in STS-3

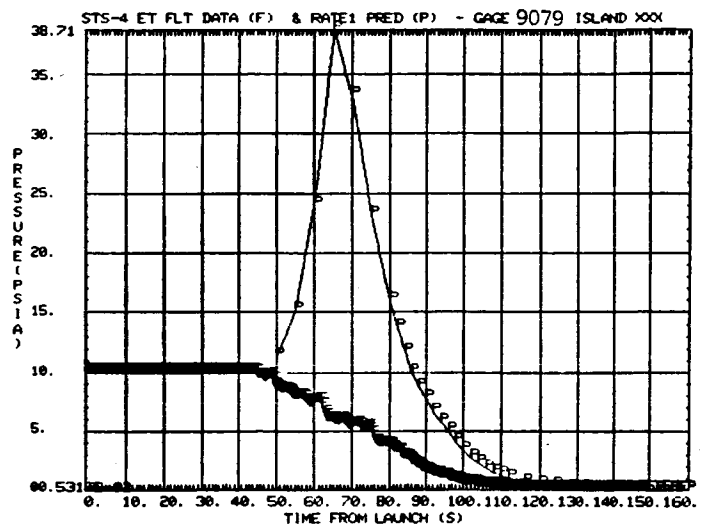
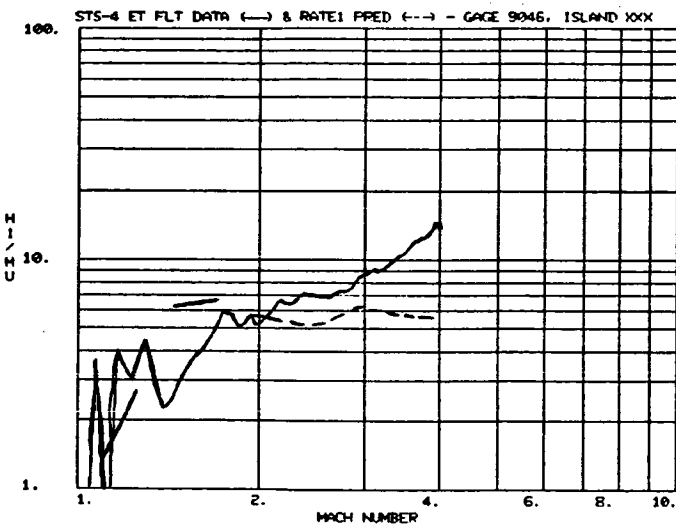
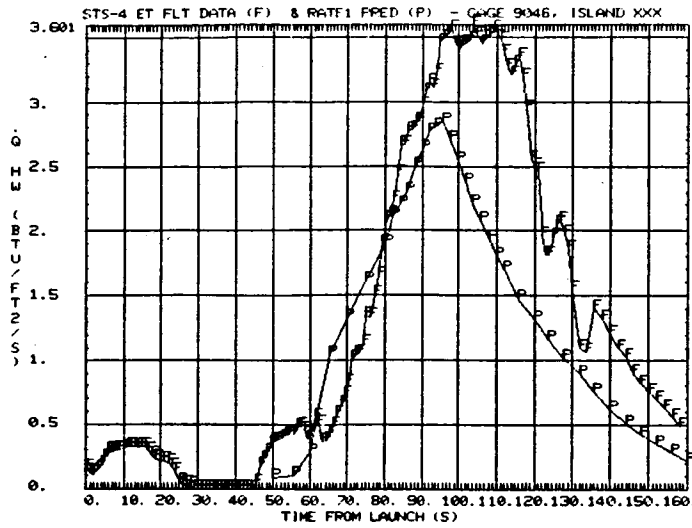


Fig. A.35d Aerothermal Analysis for Gage 9046 in STS-4

REMTECH INC.

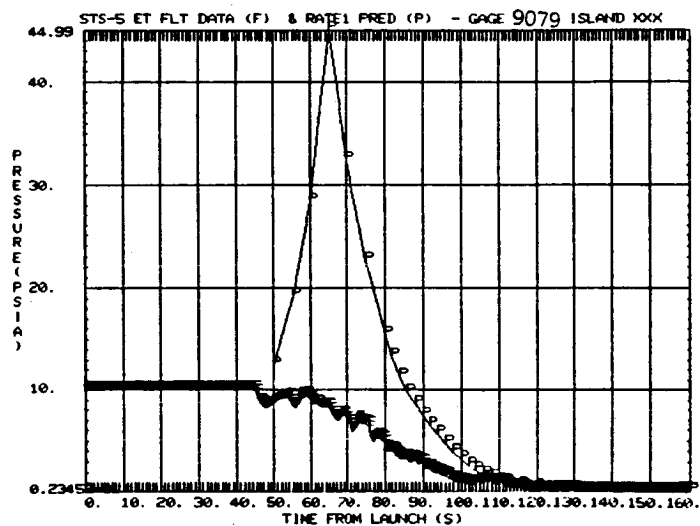
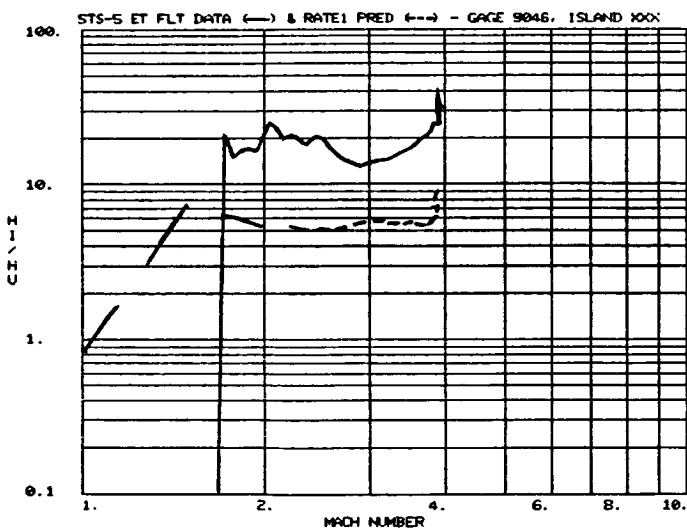
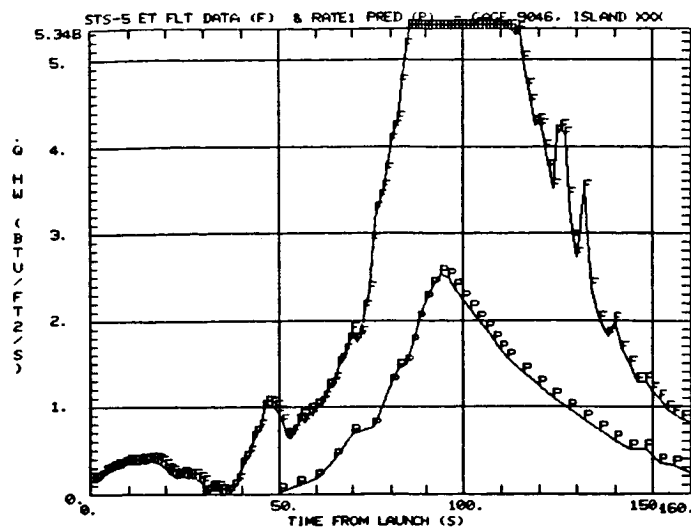


Fig. A.35e Aerothermal Analysis for Gage 9046 in STS-5

REMTECH INC.

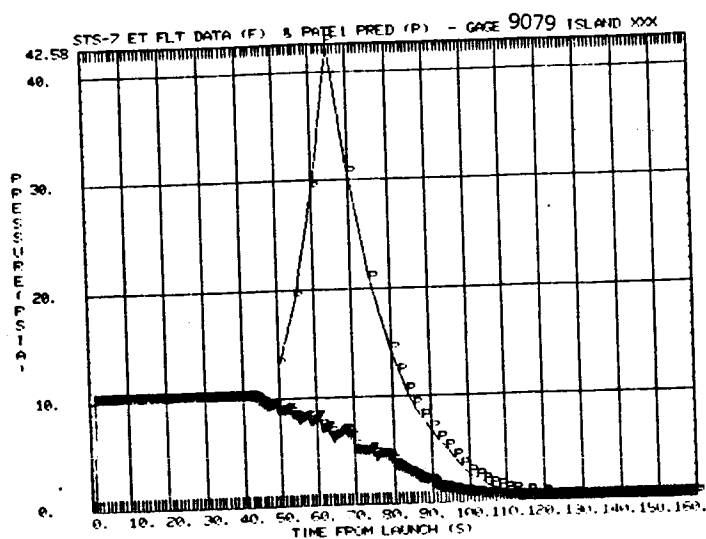
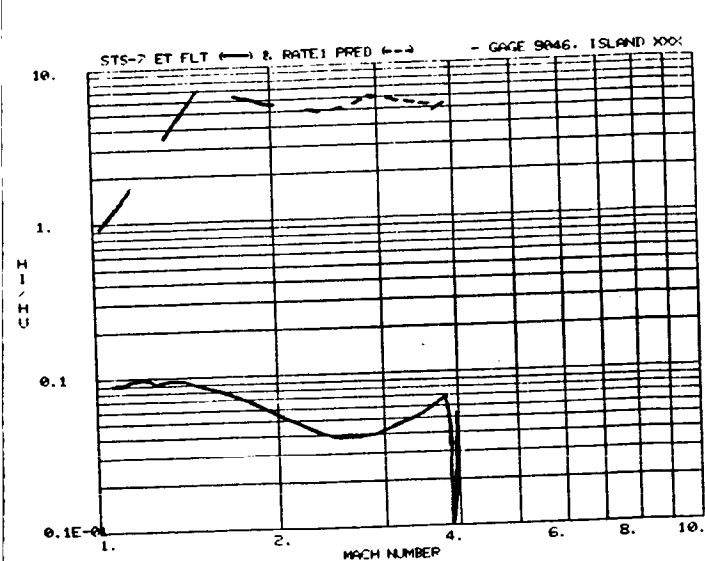
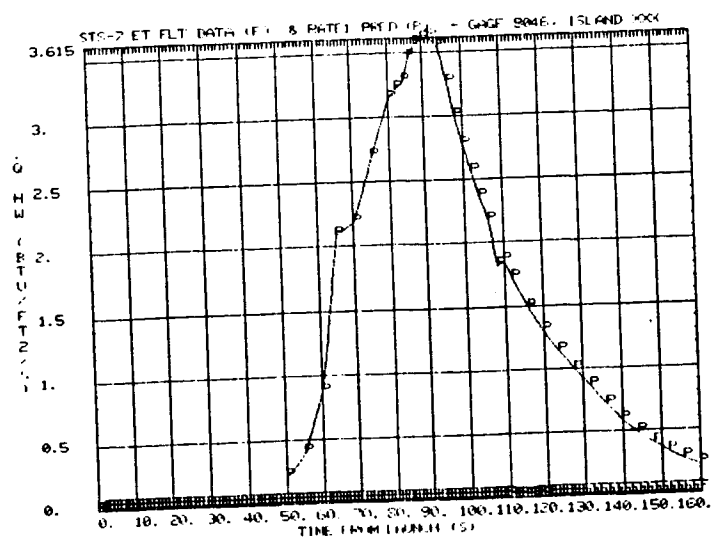


Fig. A.35f Aerothermal Analysis for Gage 9046 in STS-7

REMTECH INC.

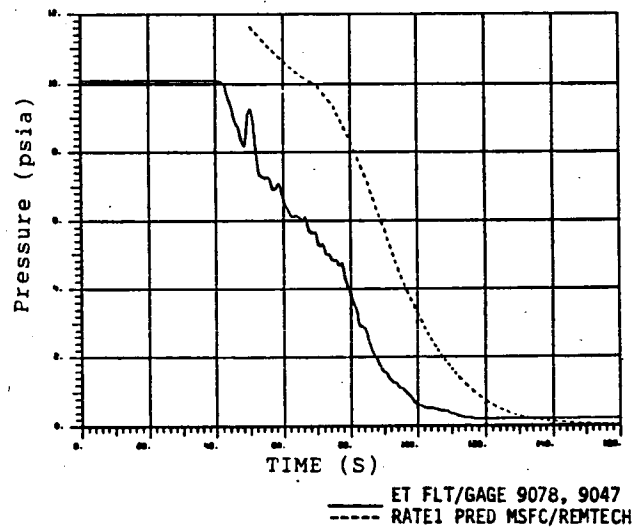
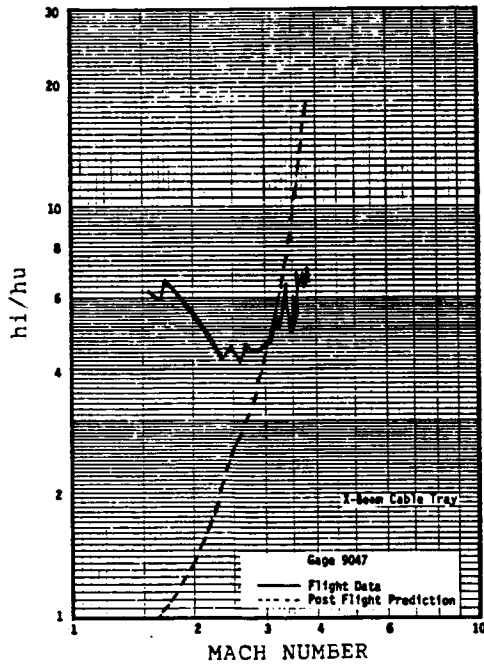
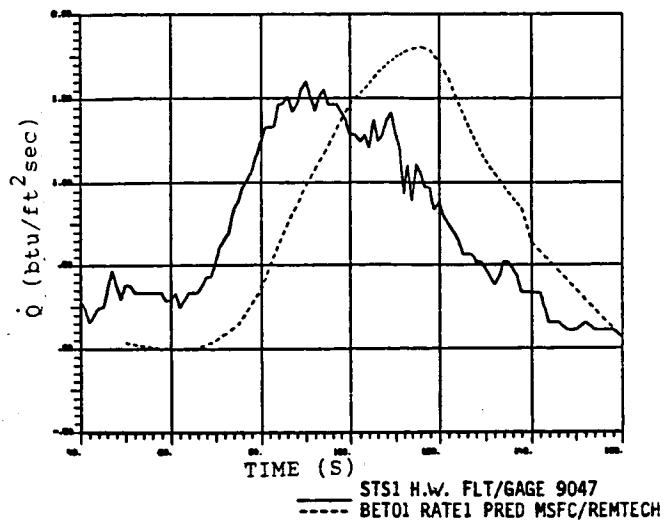


Fig. A.36a Aerothermal Analysis for Gage 9047 in STS-1

REMTECH INC.

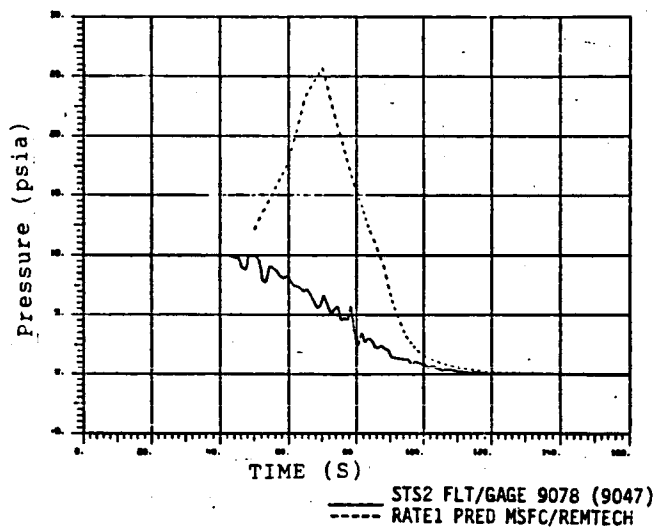
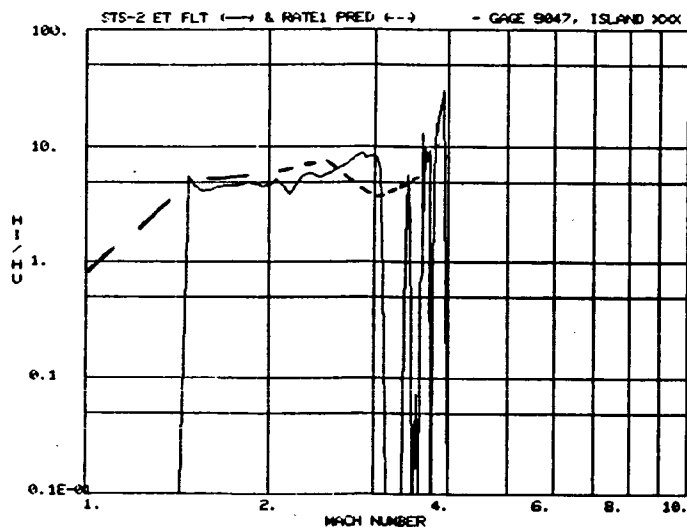
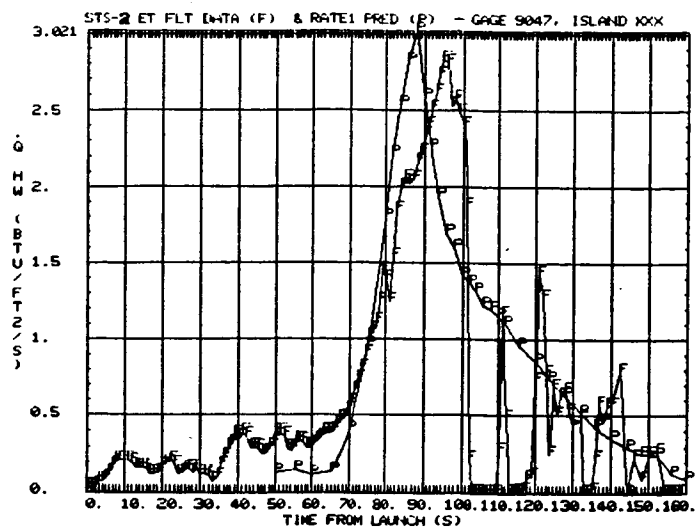


Fig. A.36b Aerothermal Analysis for Gage 9047 in STS-2

REMTECH INC.

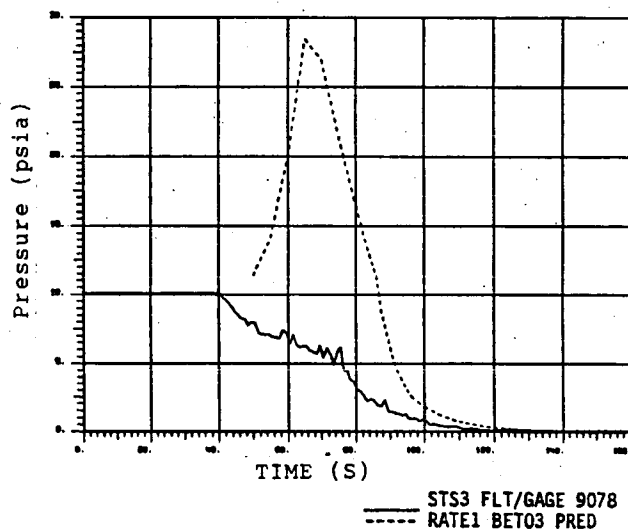
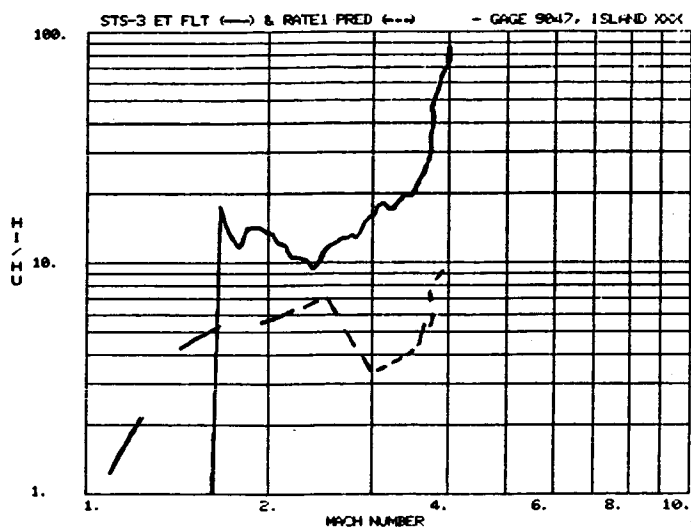
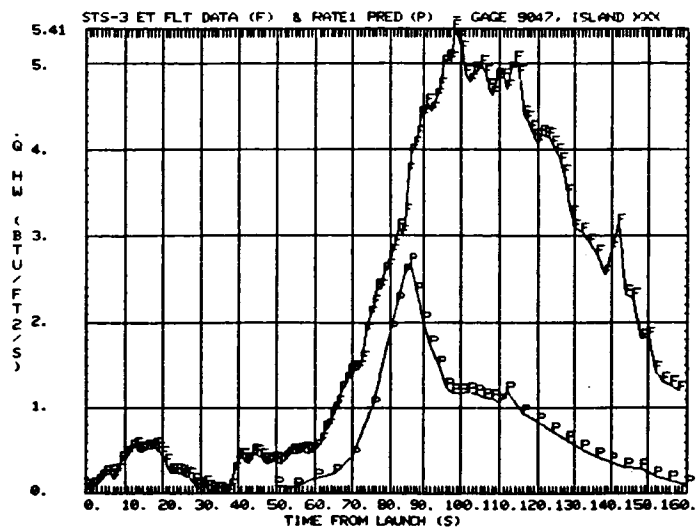


Fig. A.36c Aerothermal Analysis for Gage 9047 in STS-3

REMTECH INC.

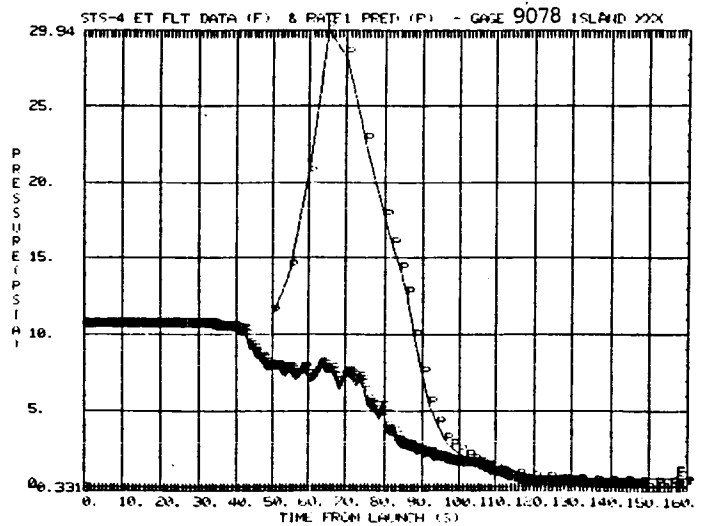
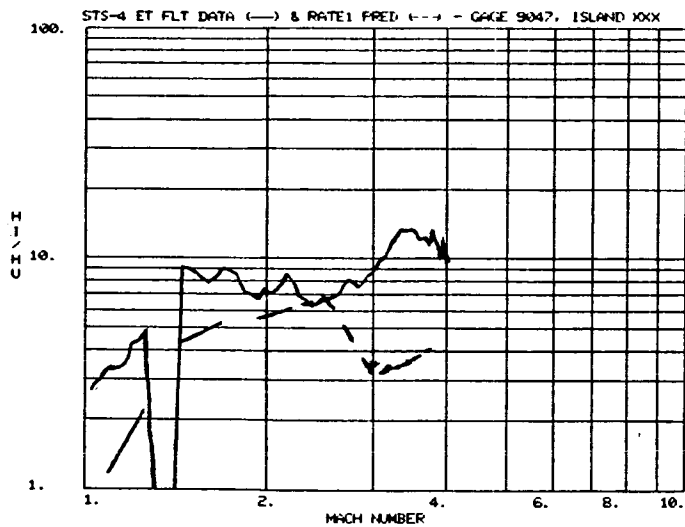
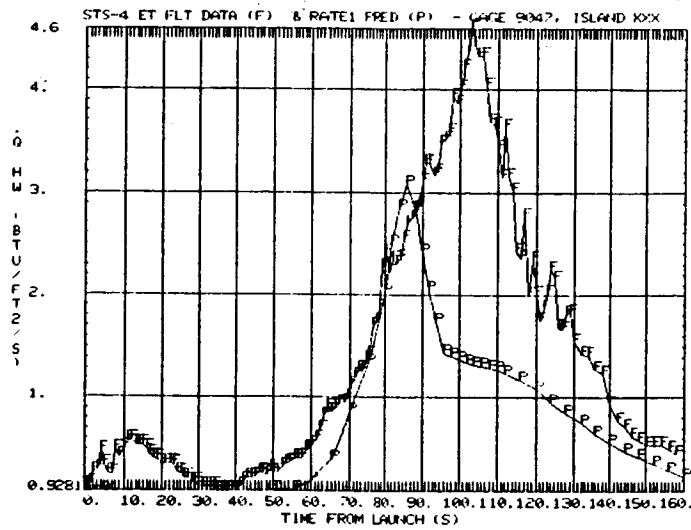


Fig. A.36d Aerothermal Analysis for Gage 9047 in STS-4

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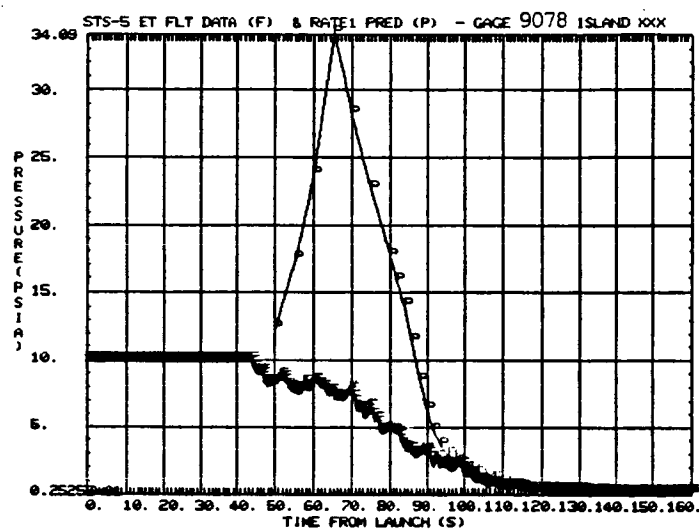


Fig. A.36e Aerothermal Analysis for Gage 9047 in STS-5

REMTECH INC.

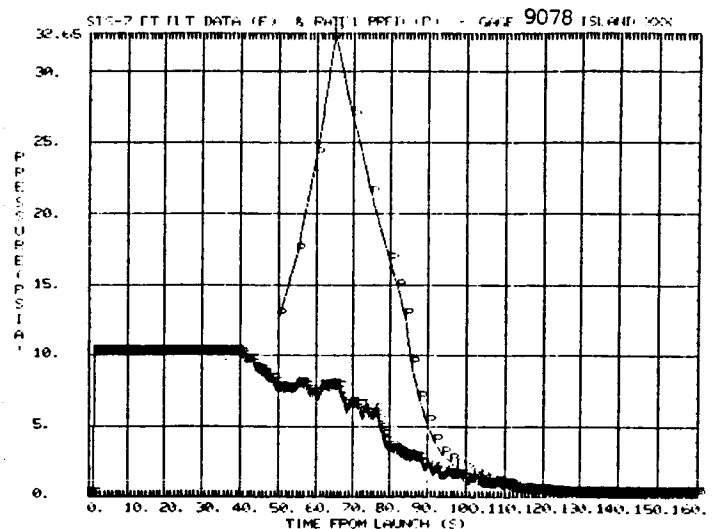
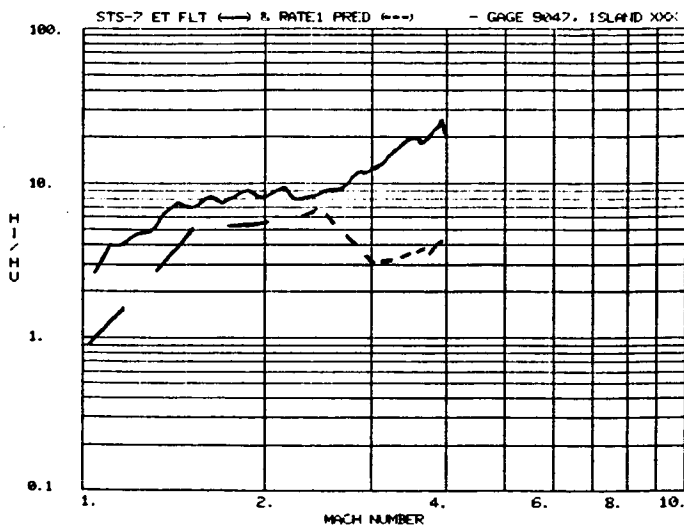
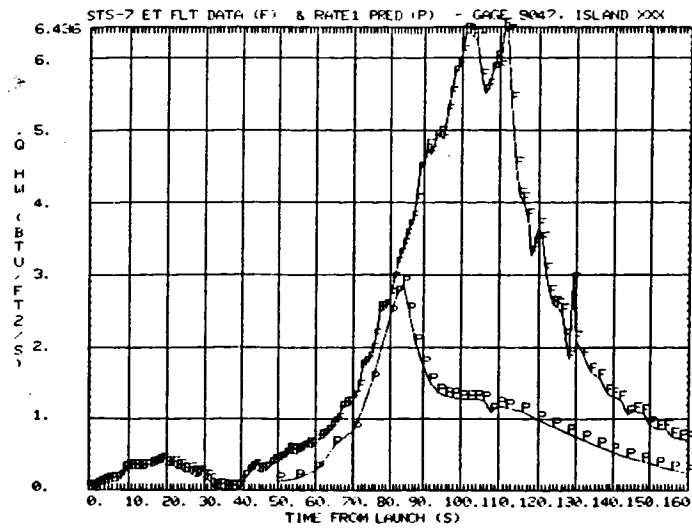


Fig. A.36f Aerothermal Analysis for Gage 9047 in STS-7

APPENDIX B

FLIGHT-DERIVED h_i/h_u VS. M_∞ PLOTS

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STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9001
10.

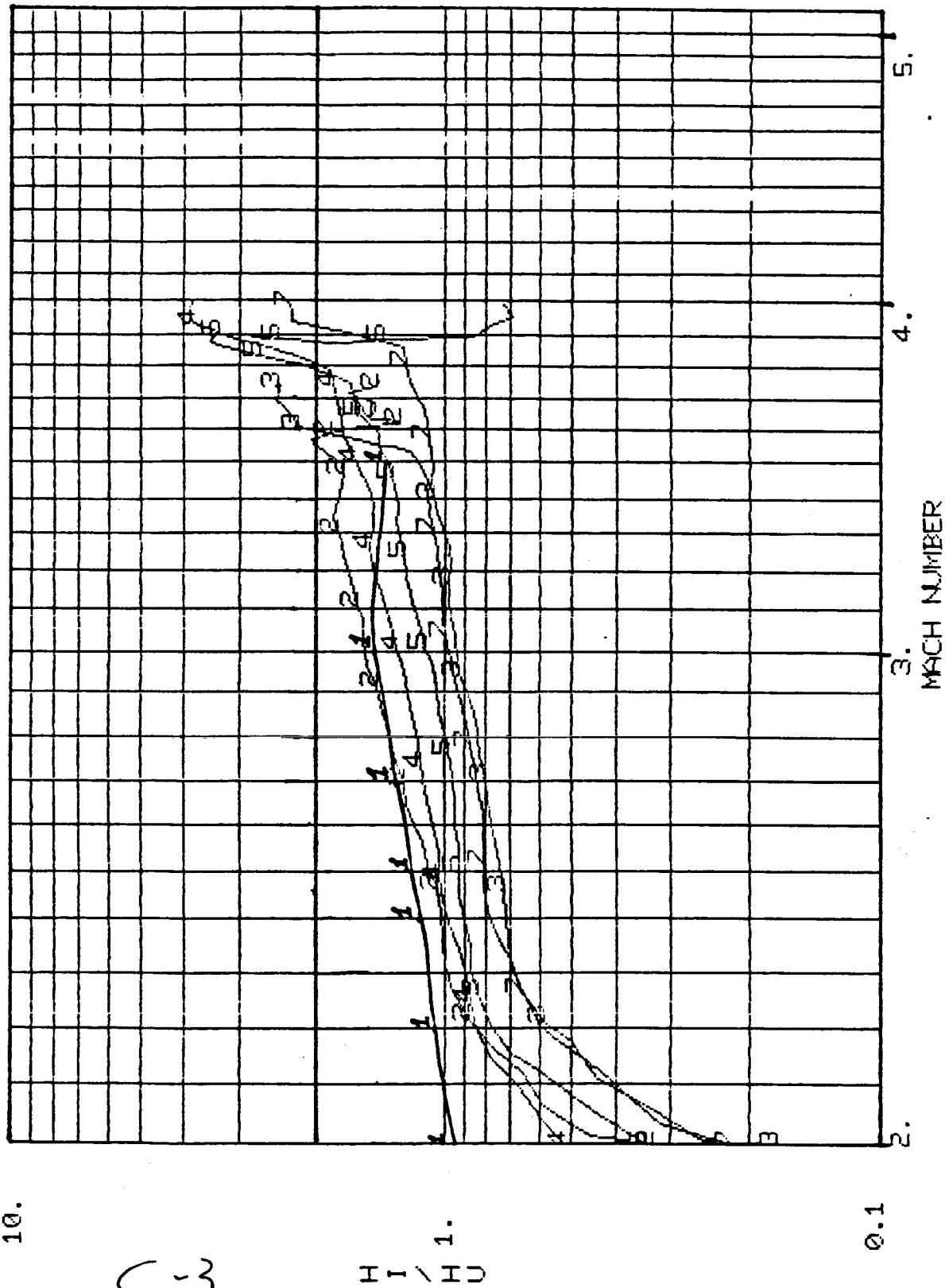


Fig. B.1 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9001

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9004, ISL 2

h_i/h_u

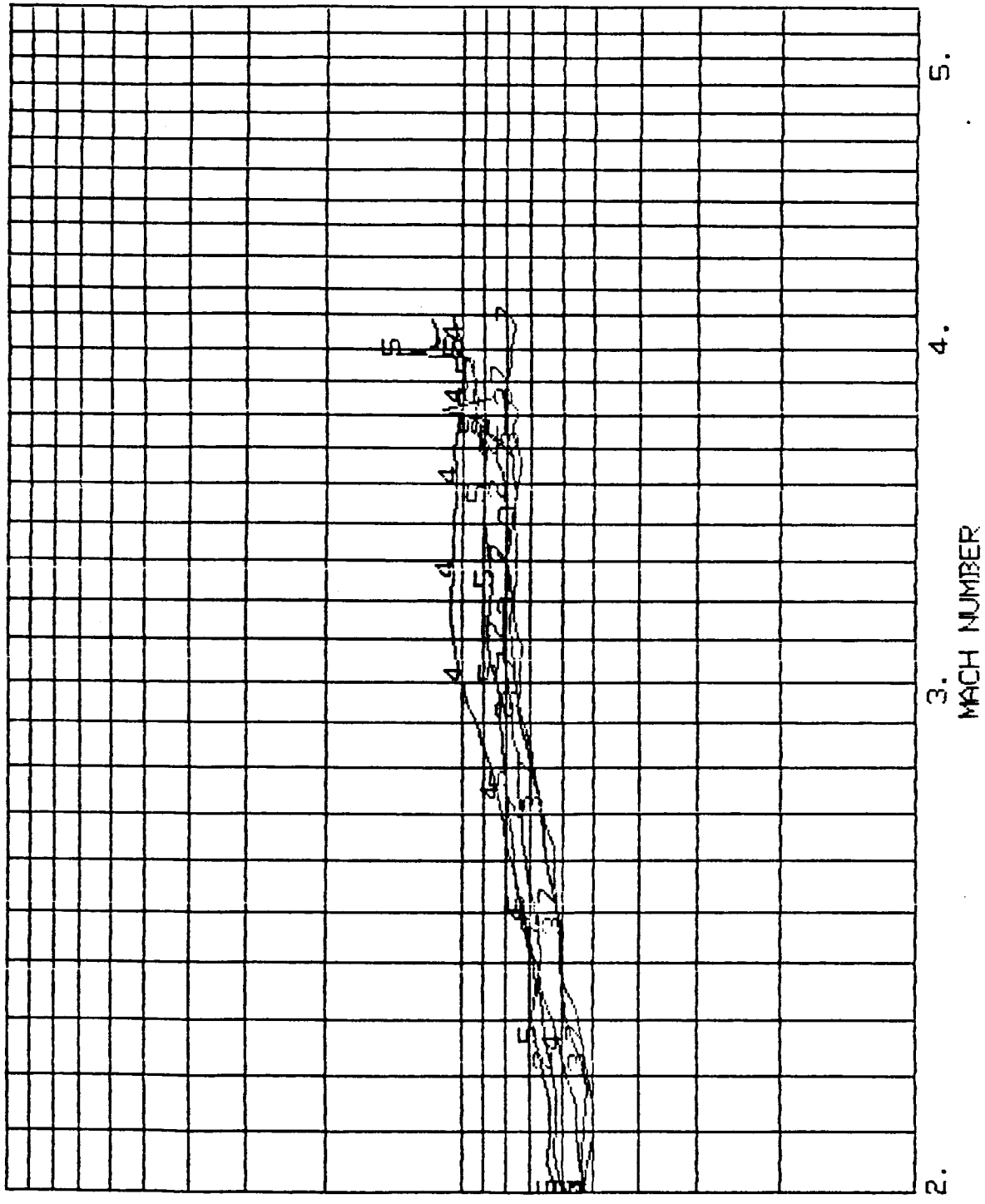


Fig. B.2 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9004

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9005, ISL 1

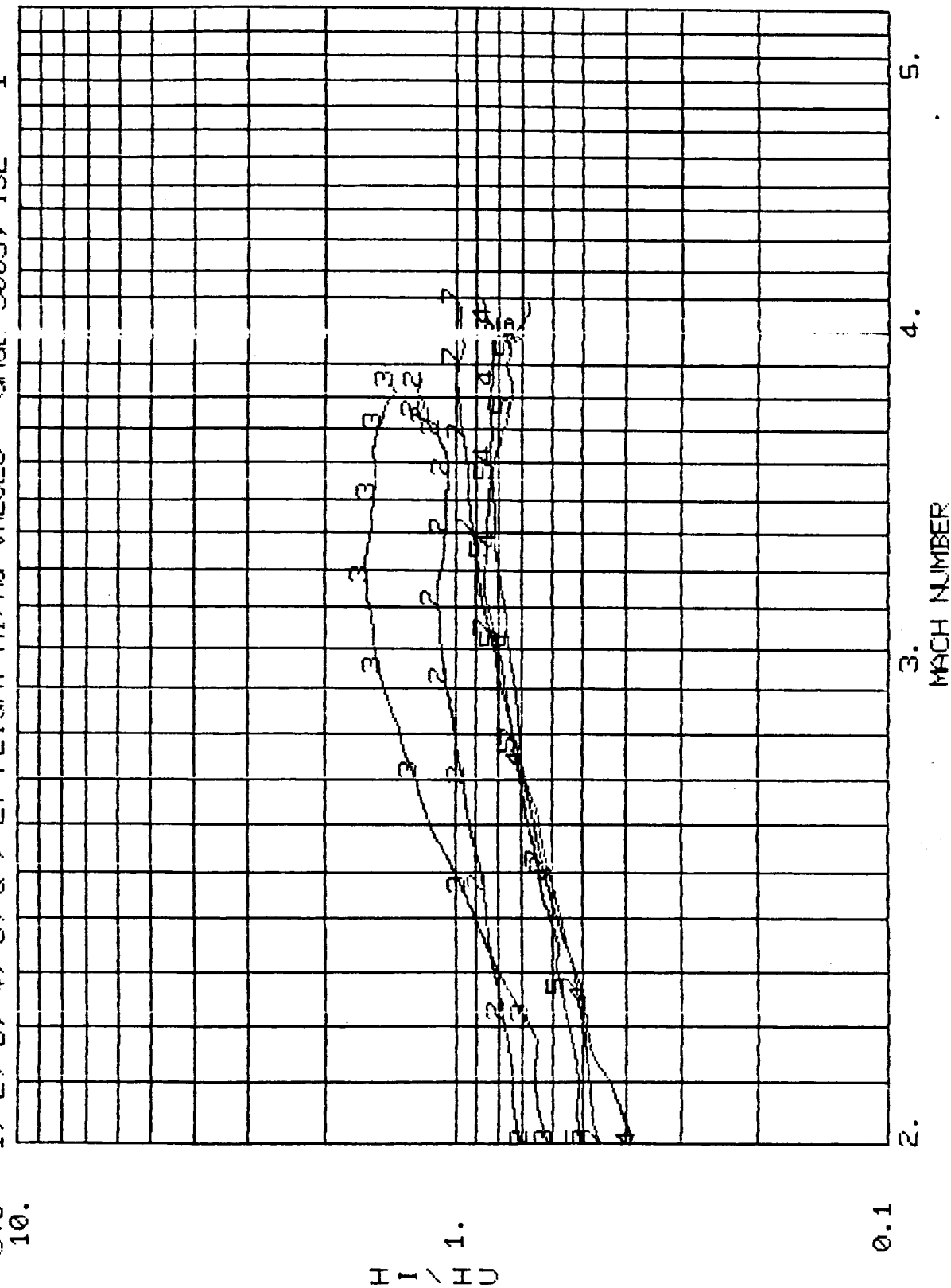


Fig. B.3 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9005

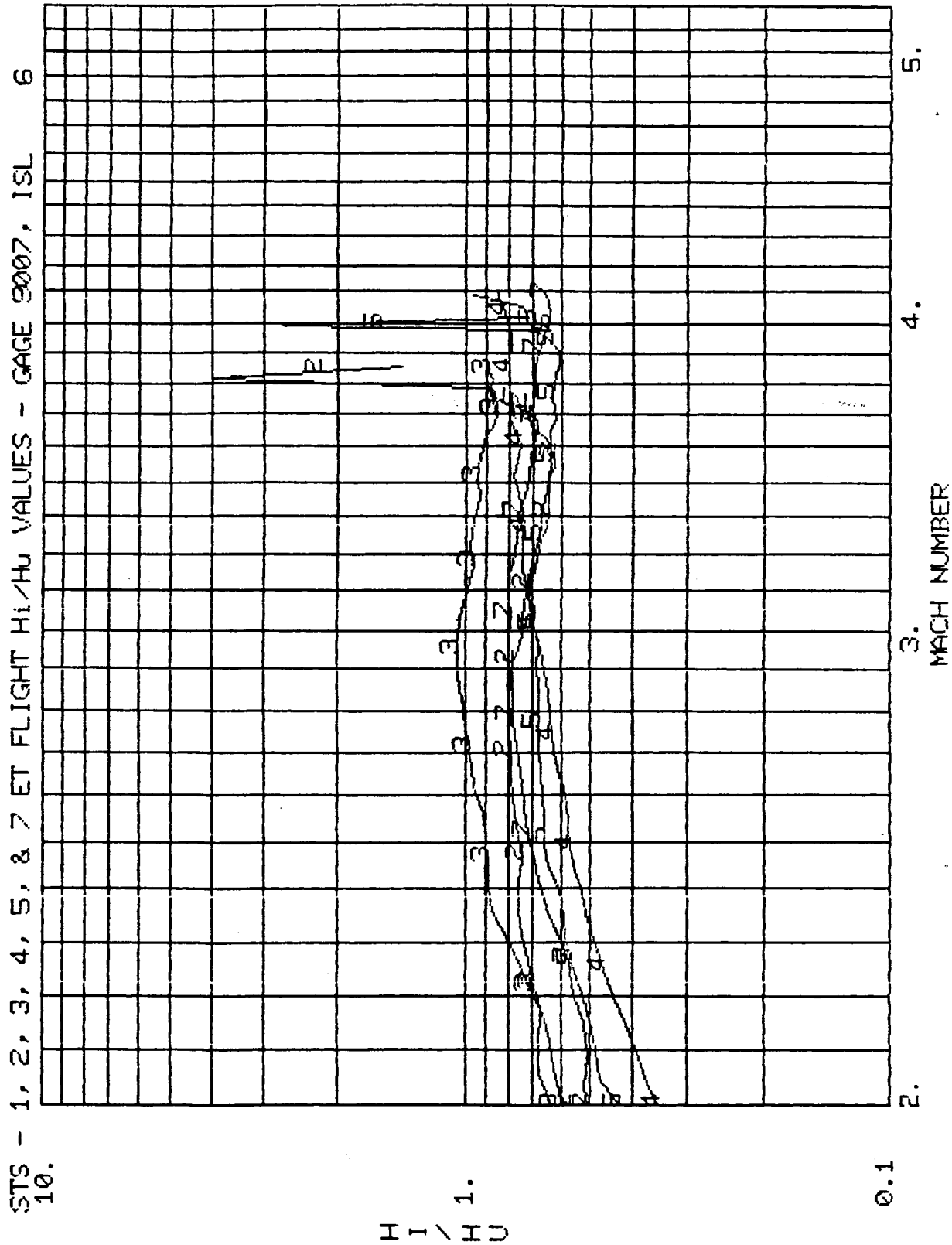


Fig. B.4 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9007

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9008, ISL 5

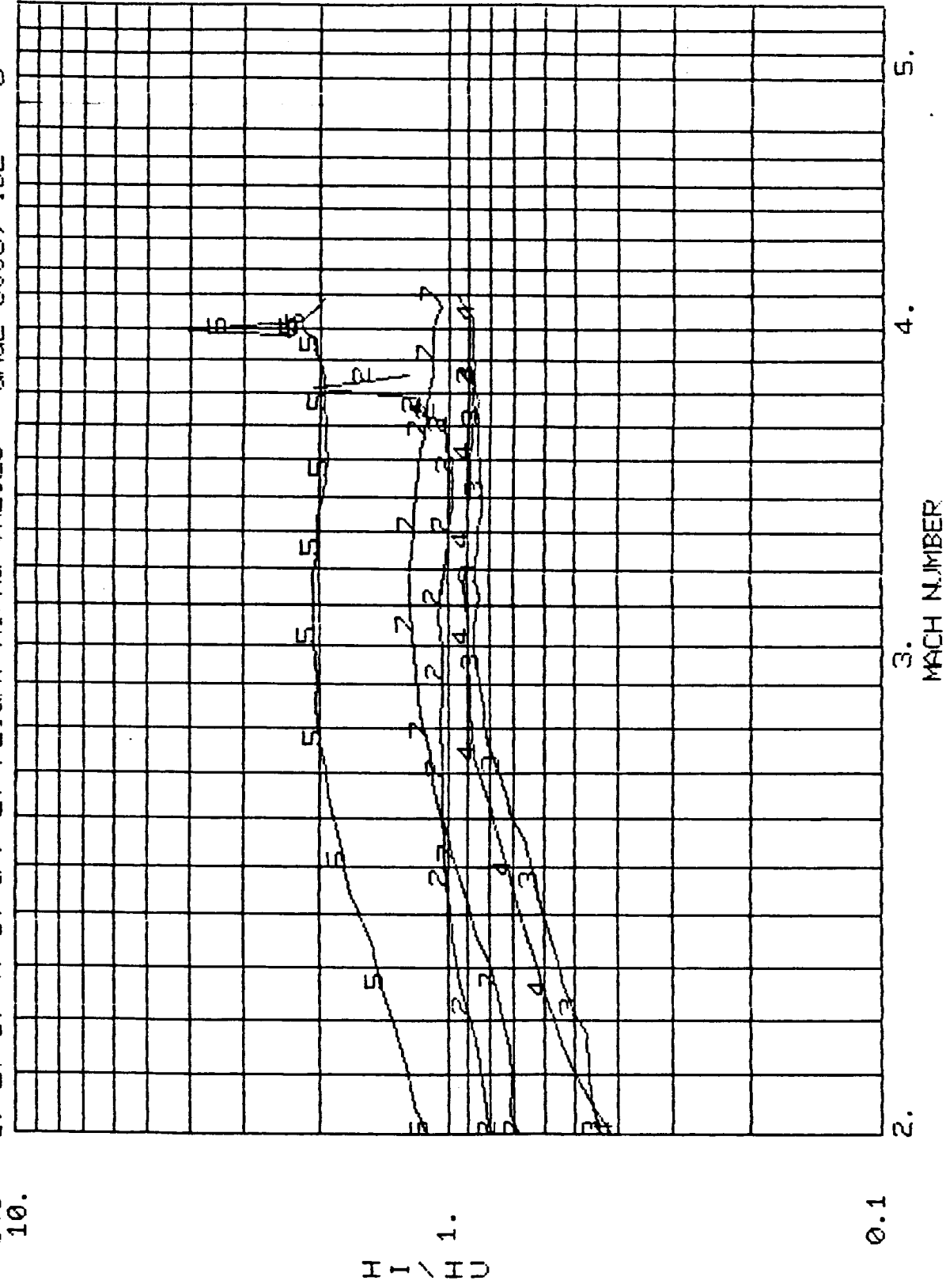


Fig. B.5 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9008

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT H_i/H_u VALUES - GAGE 9010, ISL 8

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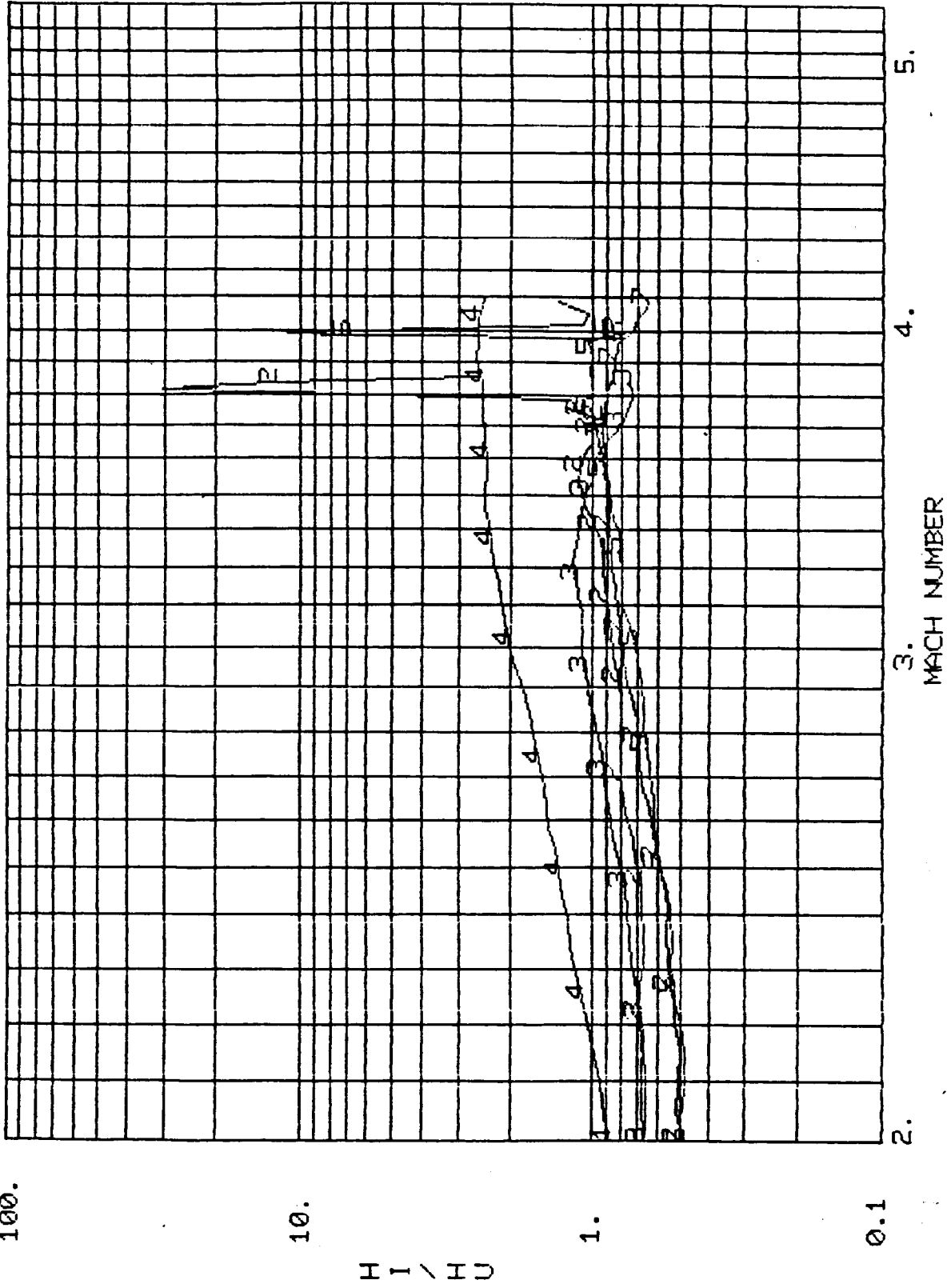


Fig. B.6 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9010

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9011, ISL 18 100.

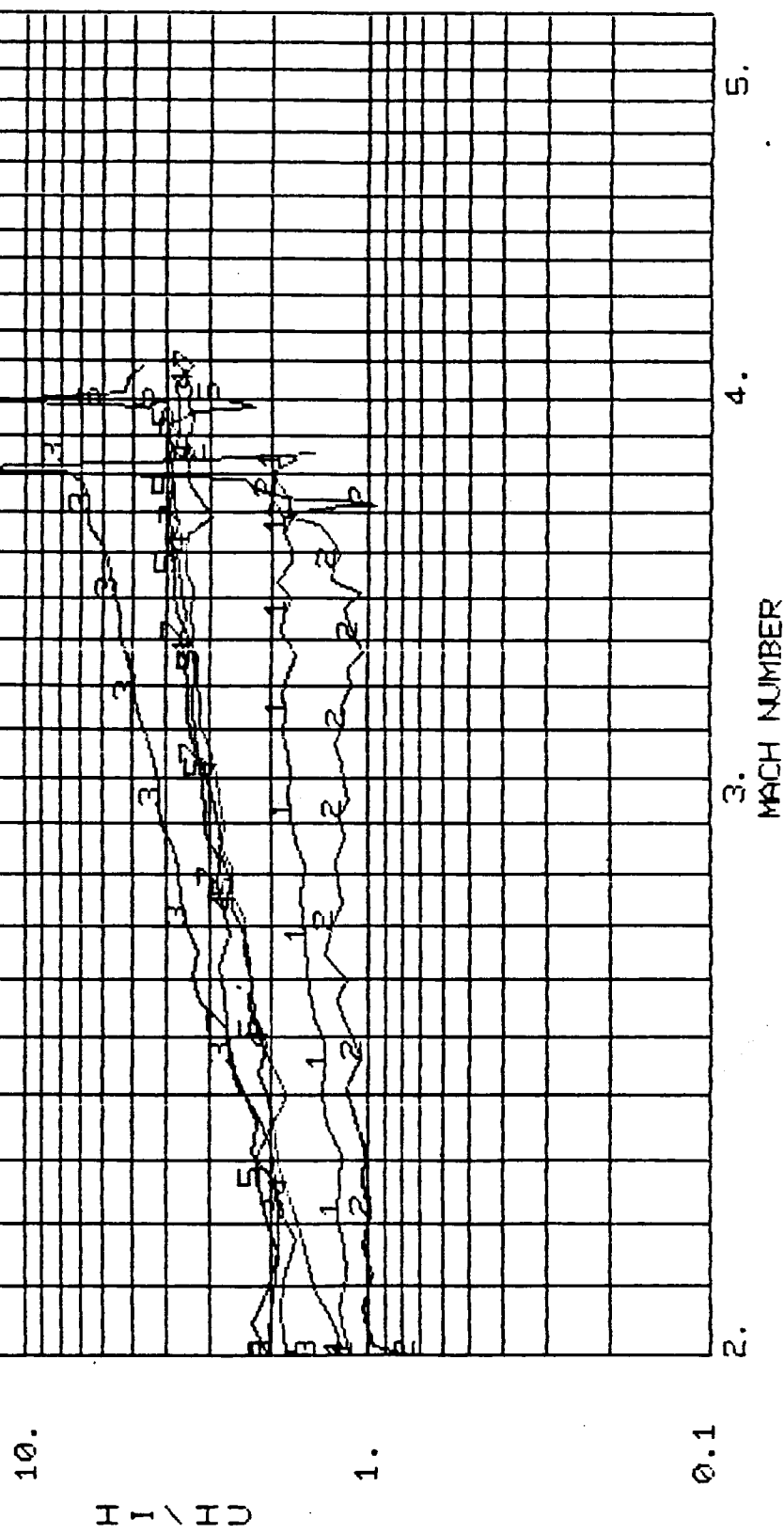


Fig. B.7 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9011

[illegible]

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Fig. B.8 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9012

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9013, ISL 173
100.

h_i / h_u 10.

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Fig. B.9 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9013

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT H_i/H_u VALUES - GAGE 9014, ISL 16

H_i / H_u 10.

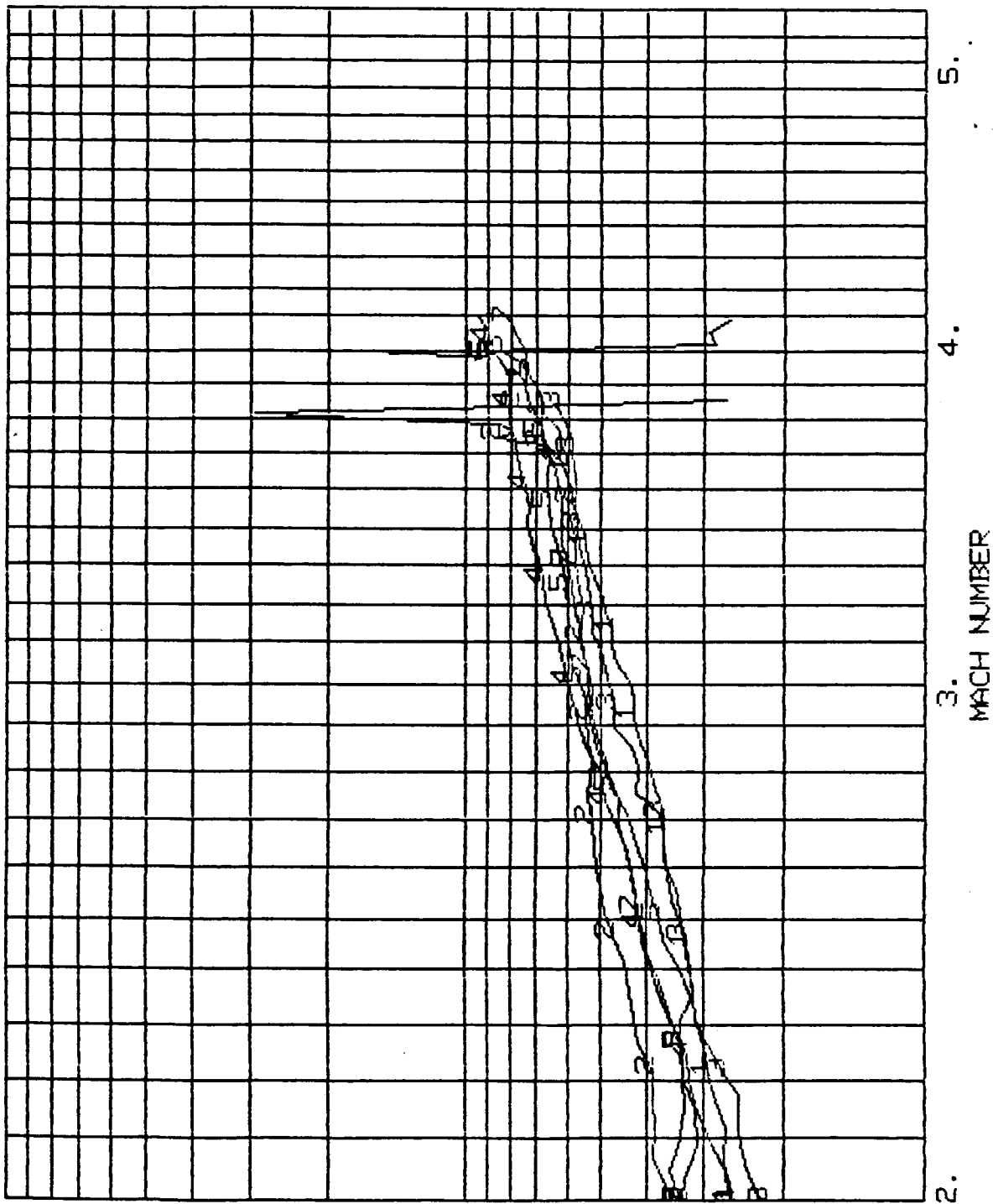


Fig. B.10 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9014

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STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9015, ISL 15
100.

h_i/h_u 10.

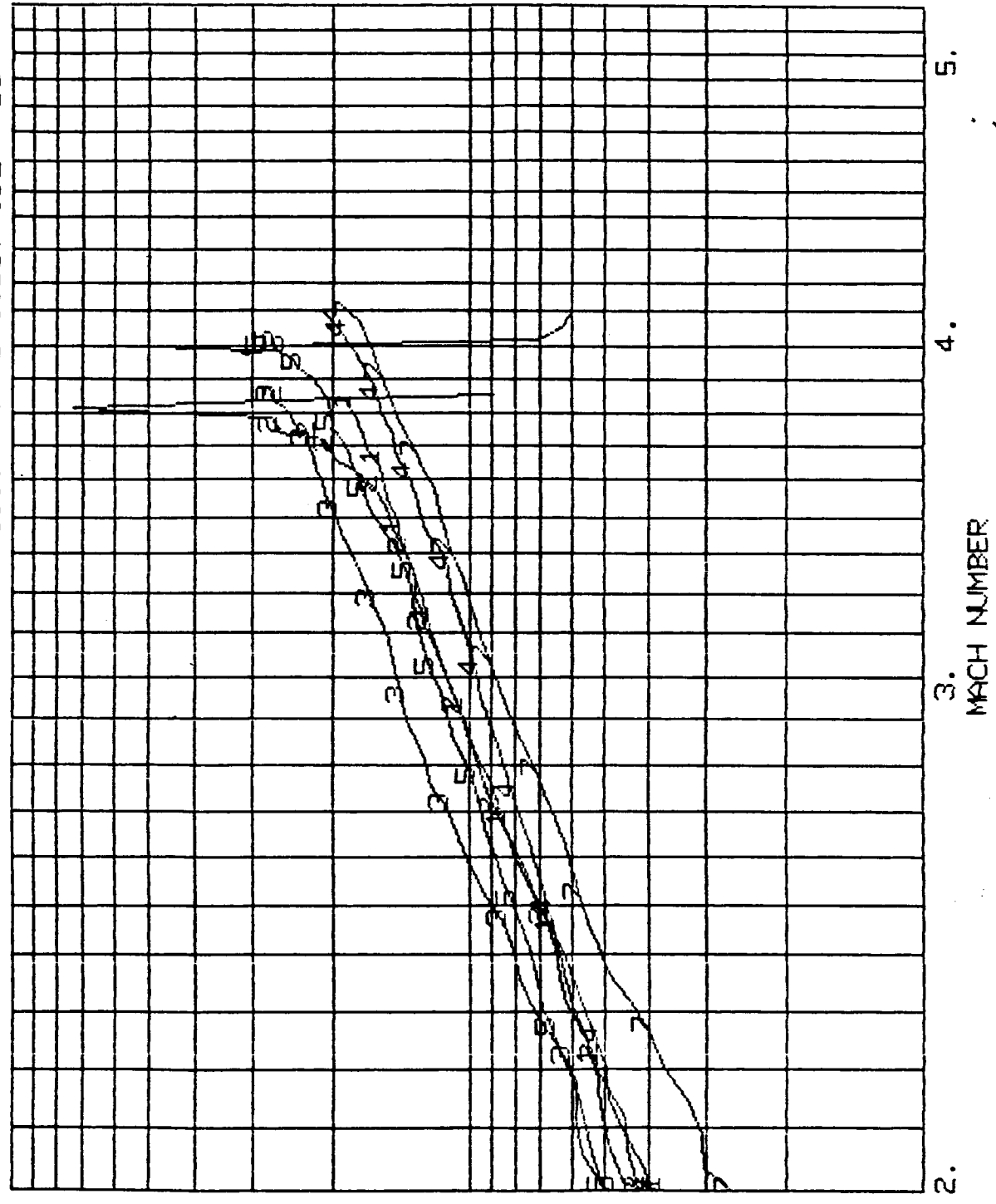


Fig. B.11 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9015

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9016, ISL 14
100.

h_i / h_u
10.

1.

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MACH NUMBER

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Fig. B.12 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9016

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STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9017, ISL 12
10.

h_i/h_u 1.

0.1

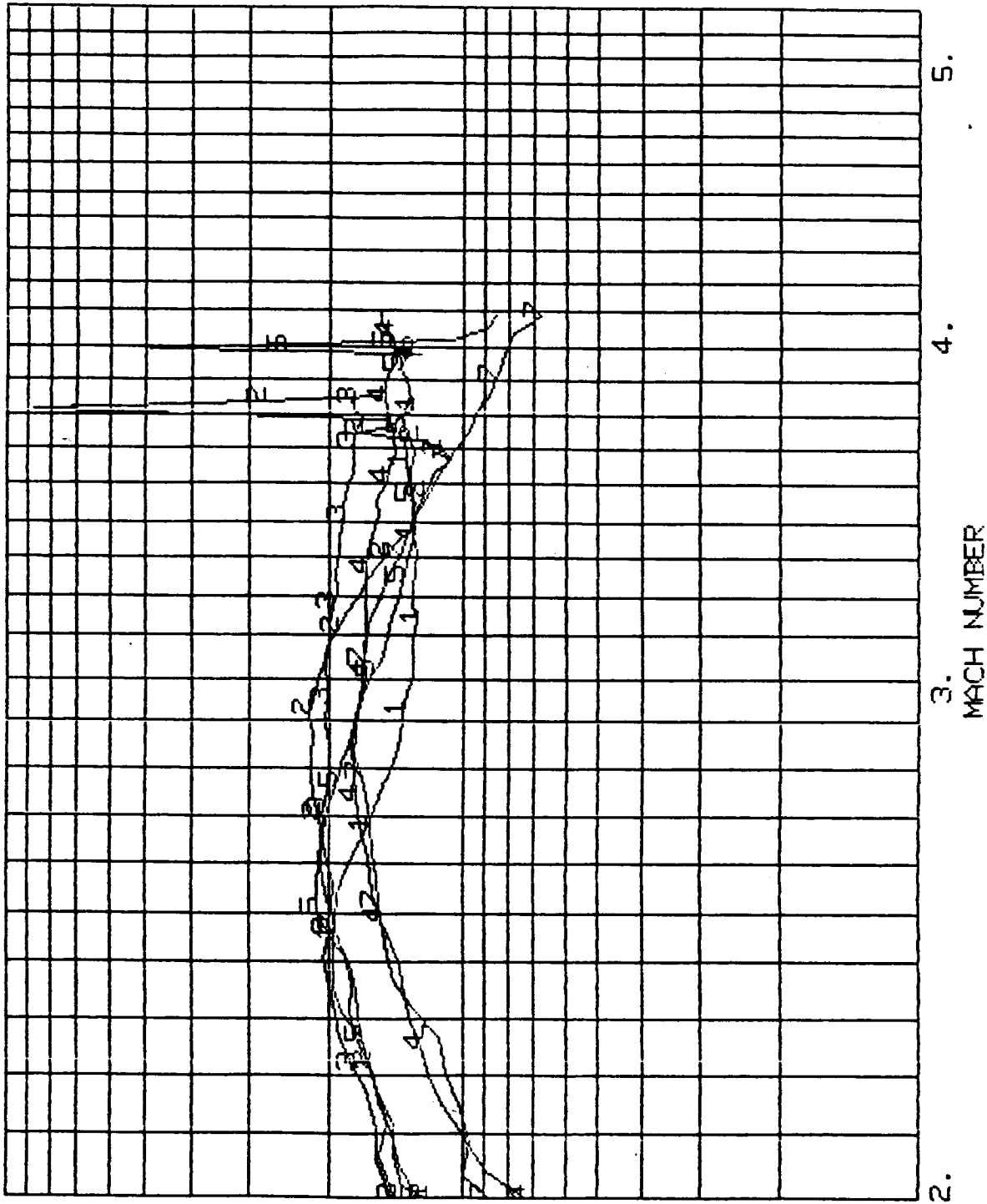
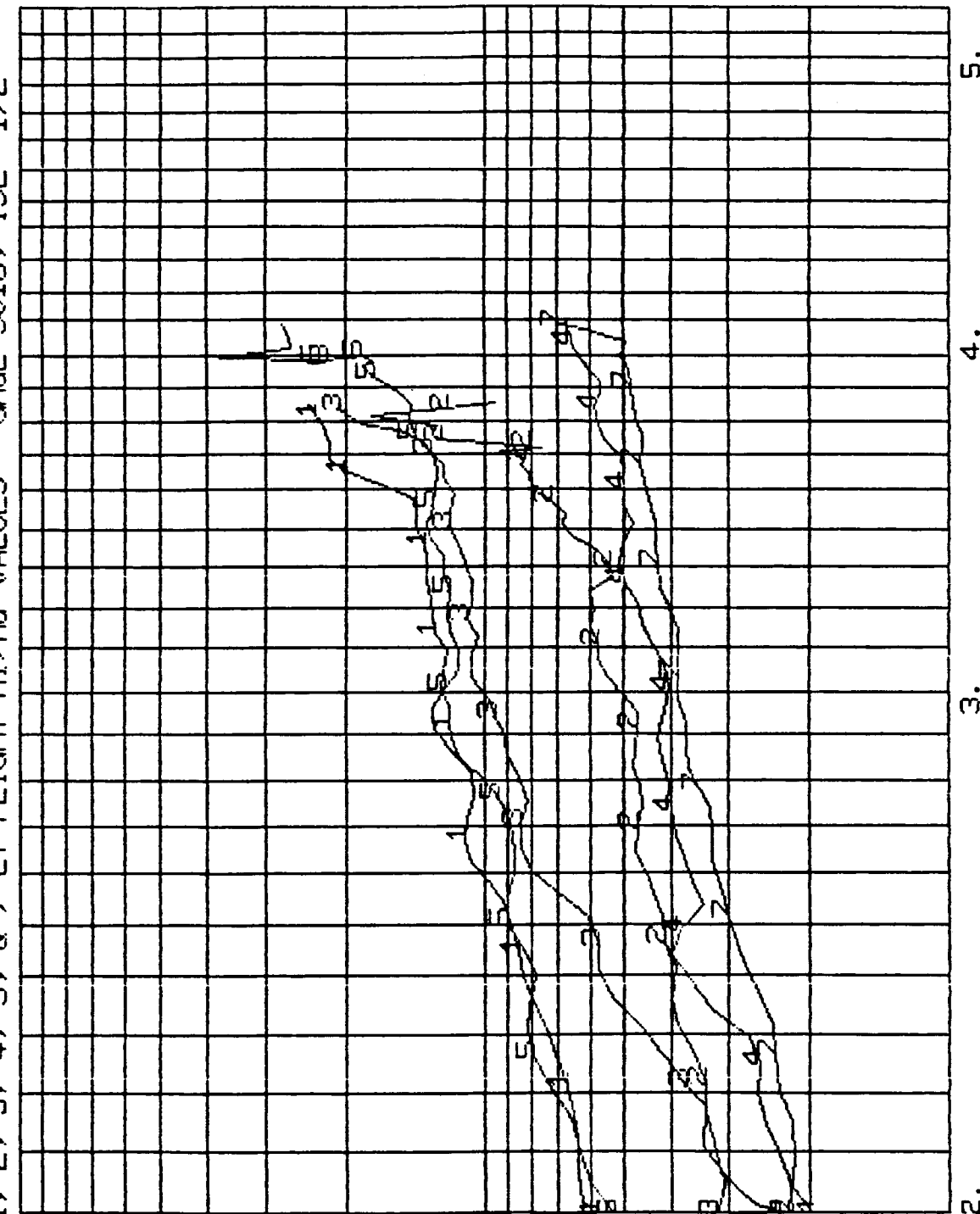


Fig. B.13 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9017

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9018, ISL 172



2. 4. 5. ;

Fig. B.14 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9018

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9019, ISL 171
100.

h_i/h_u 10.

1.

2.

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Fig. B.15 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9019

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9020, ISL 27

h_i/h_u

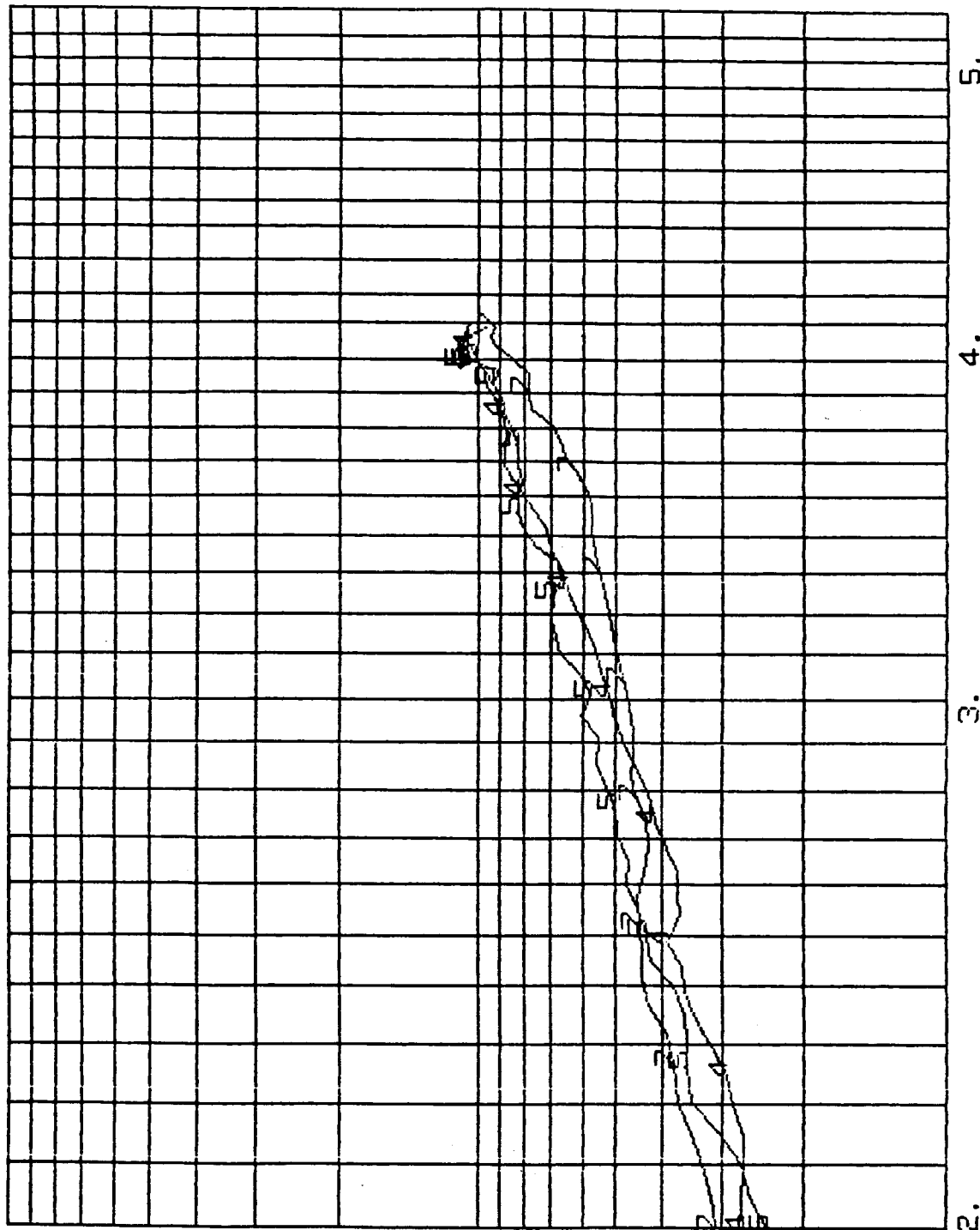


Fig. B.16 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9020

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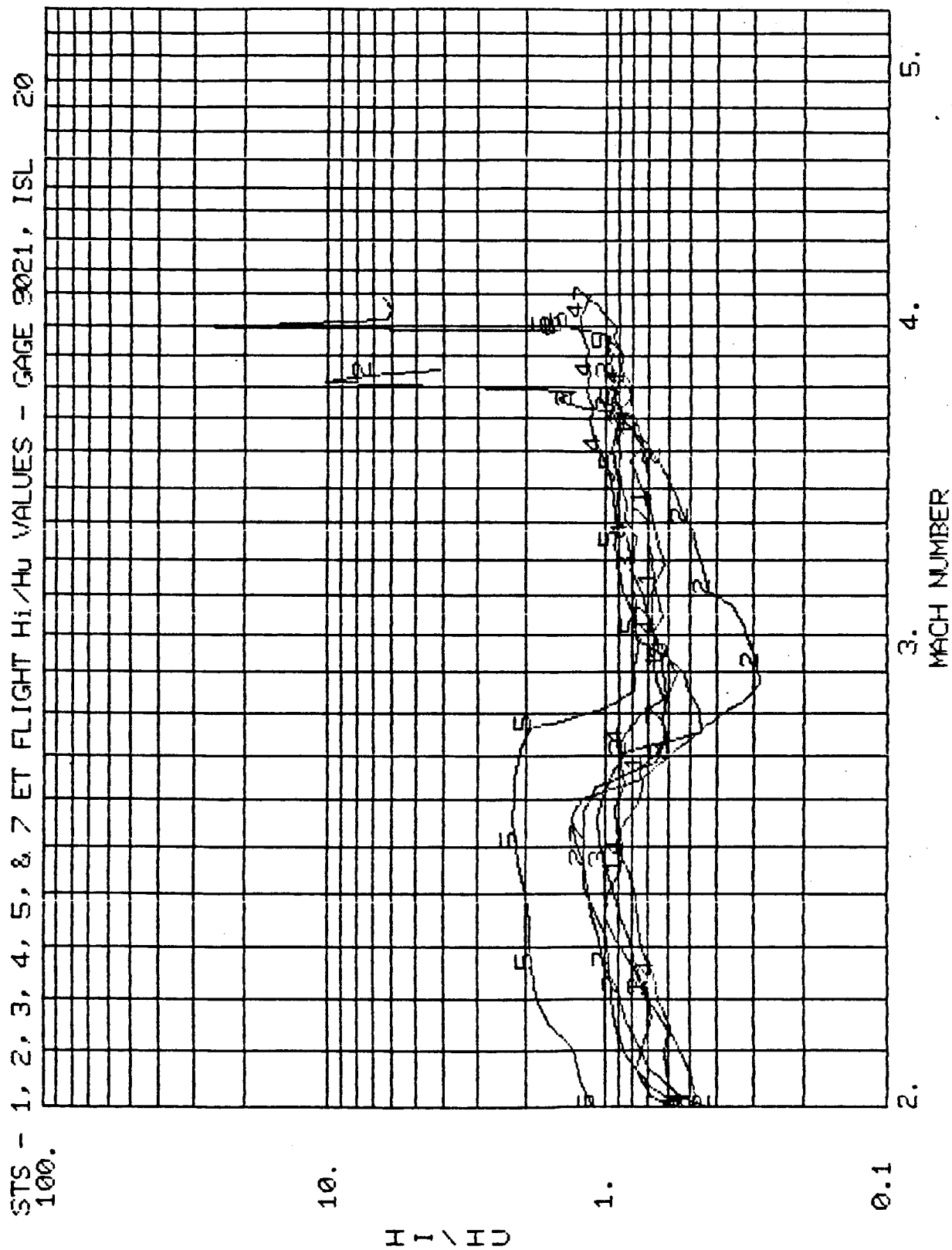


Fig. B.17 Flight-derived $\frac{h_i}{h_u}$ vs. M_∞ for Gage 9021

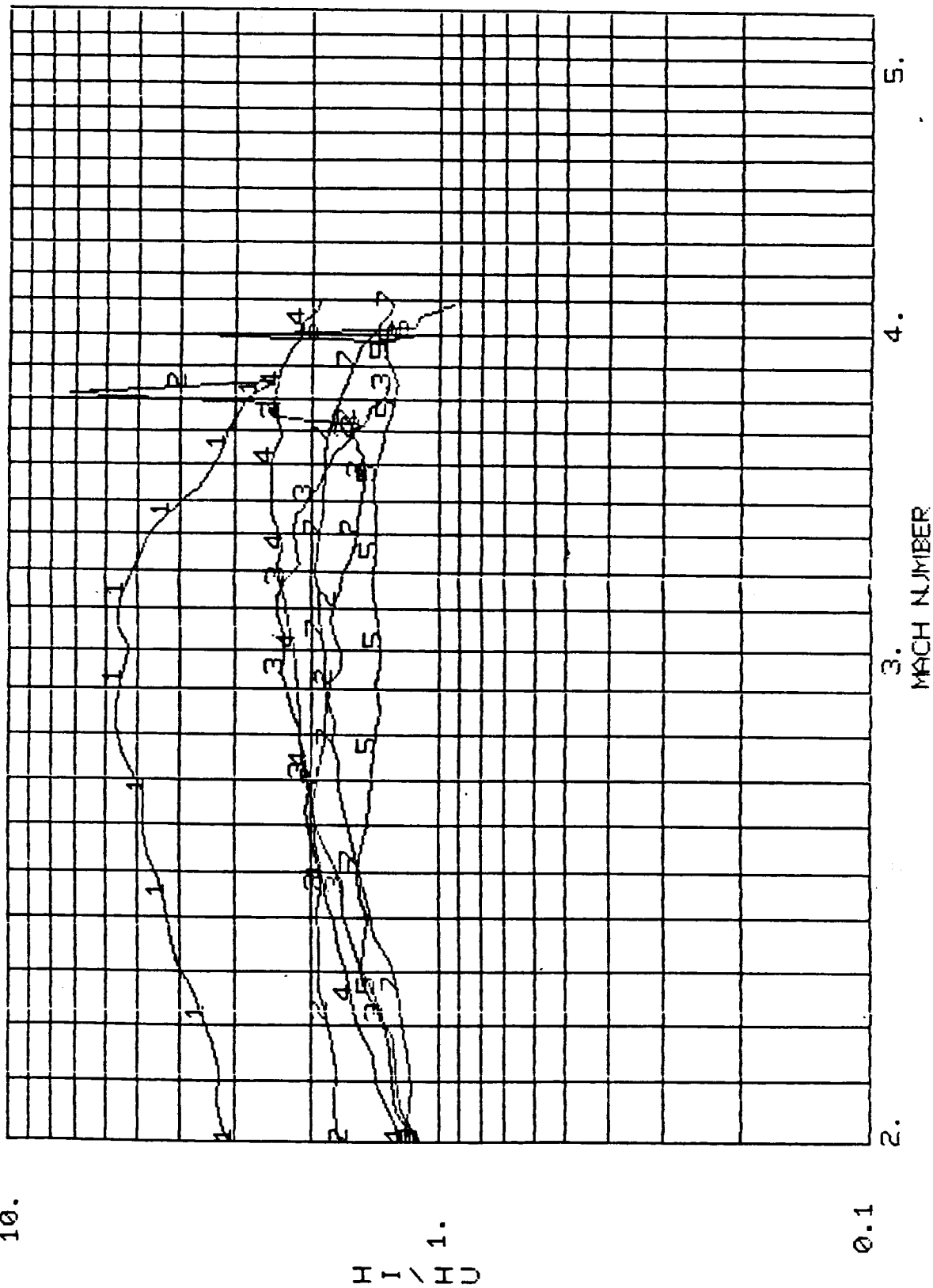
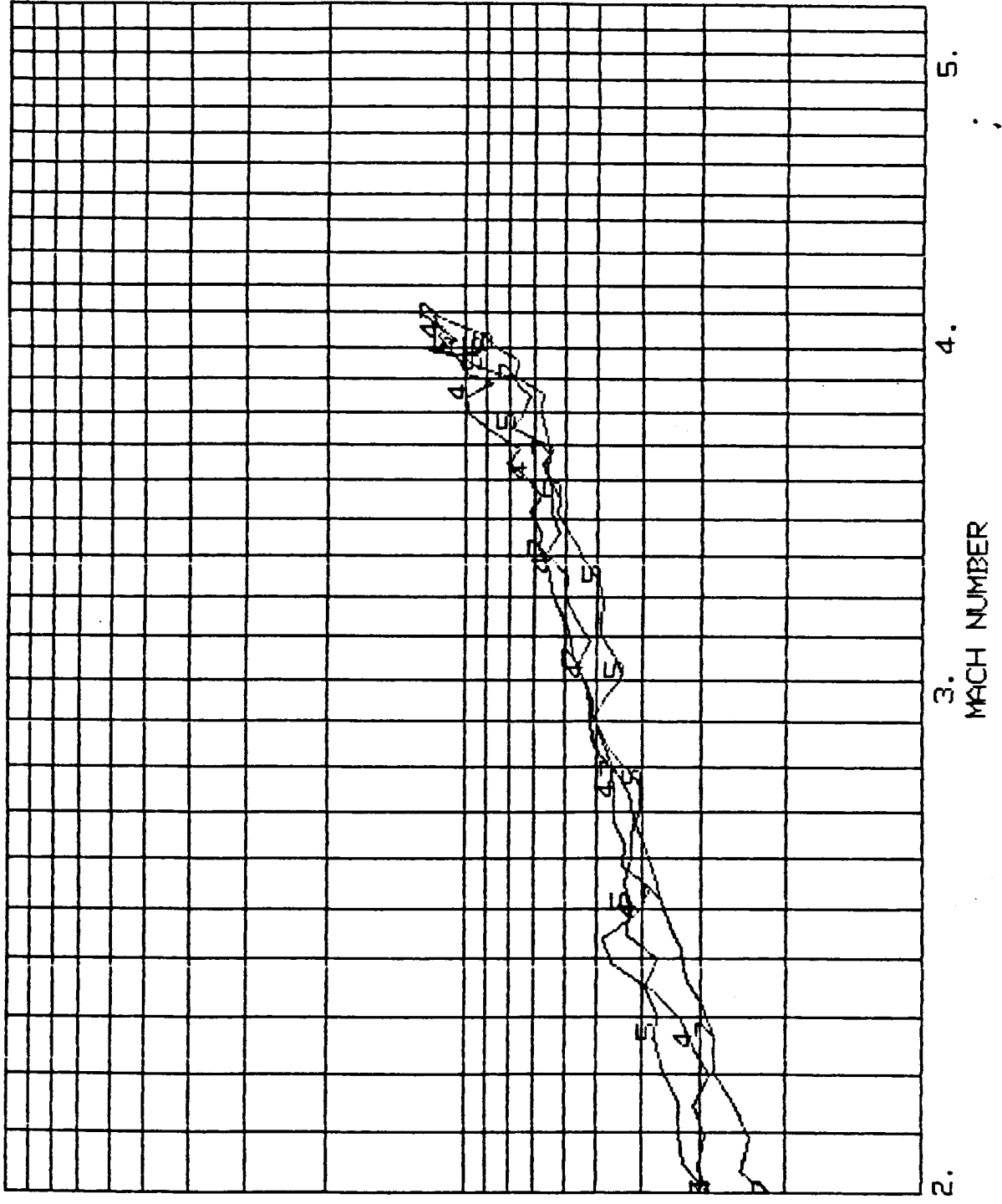


Fig. B.18 Flight-derived h_i/h_u vs. M_∞ for Gage 9022

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9023, ISL 26

h_i / h_u 10.



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Fig. B.19 Flight-derived h_i/h_u vs. M_∞ for Gage 9023

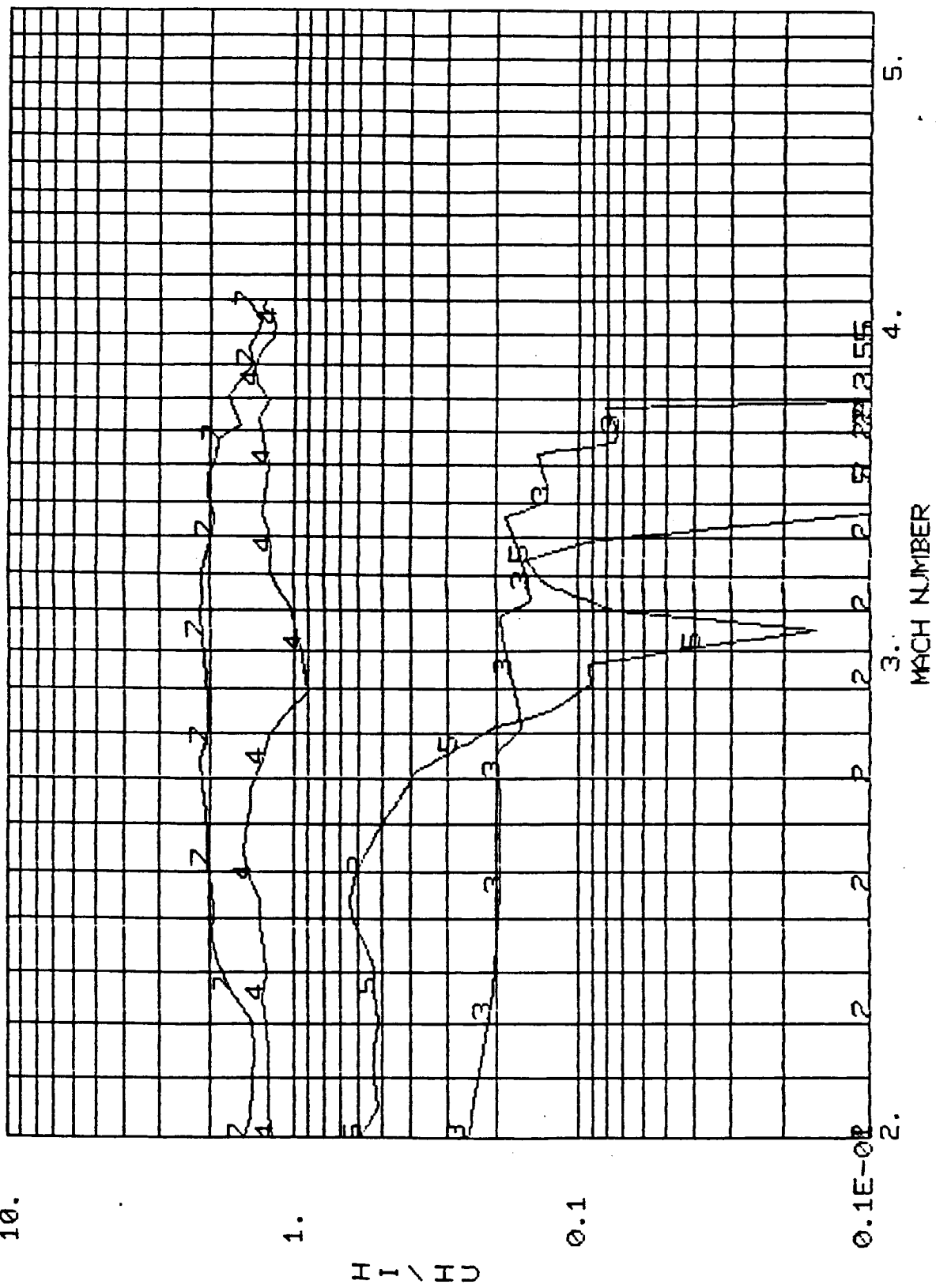


Fig. B.20 Flight-derived h_i/h_u vs. M_∞ for Gage 9025

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STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9026, ISL 28
10.

h_i / h_u

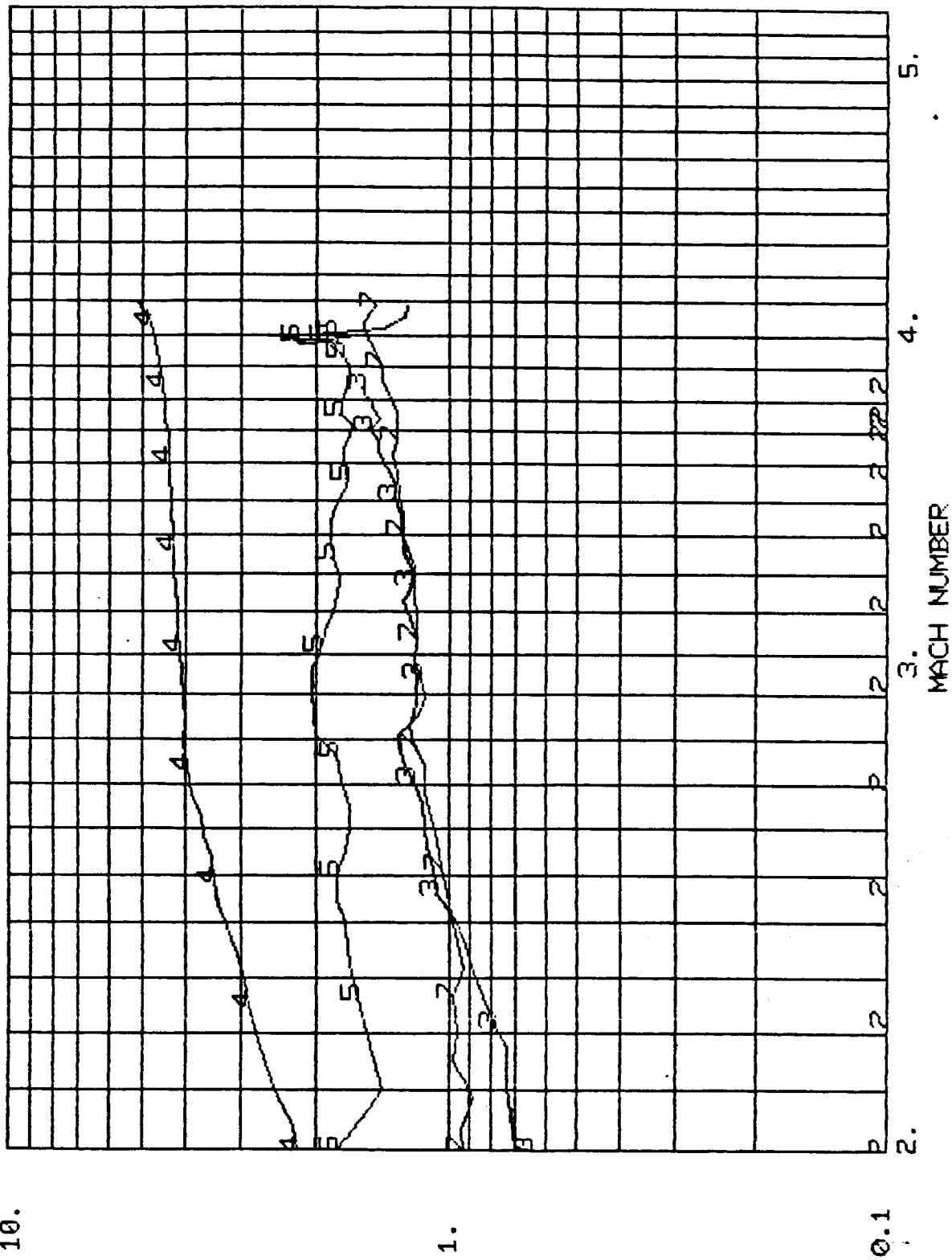


Fig. B.21 Flight-derived h_i/h_u vs. M_∞ for Gage 9026

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9027, ISL 33

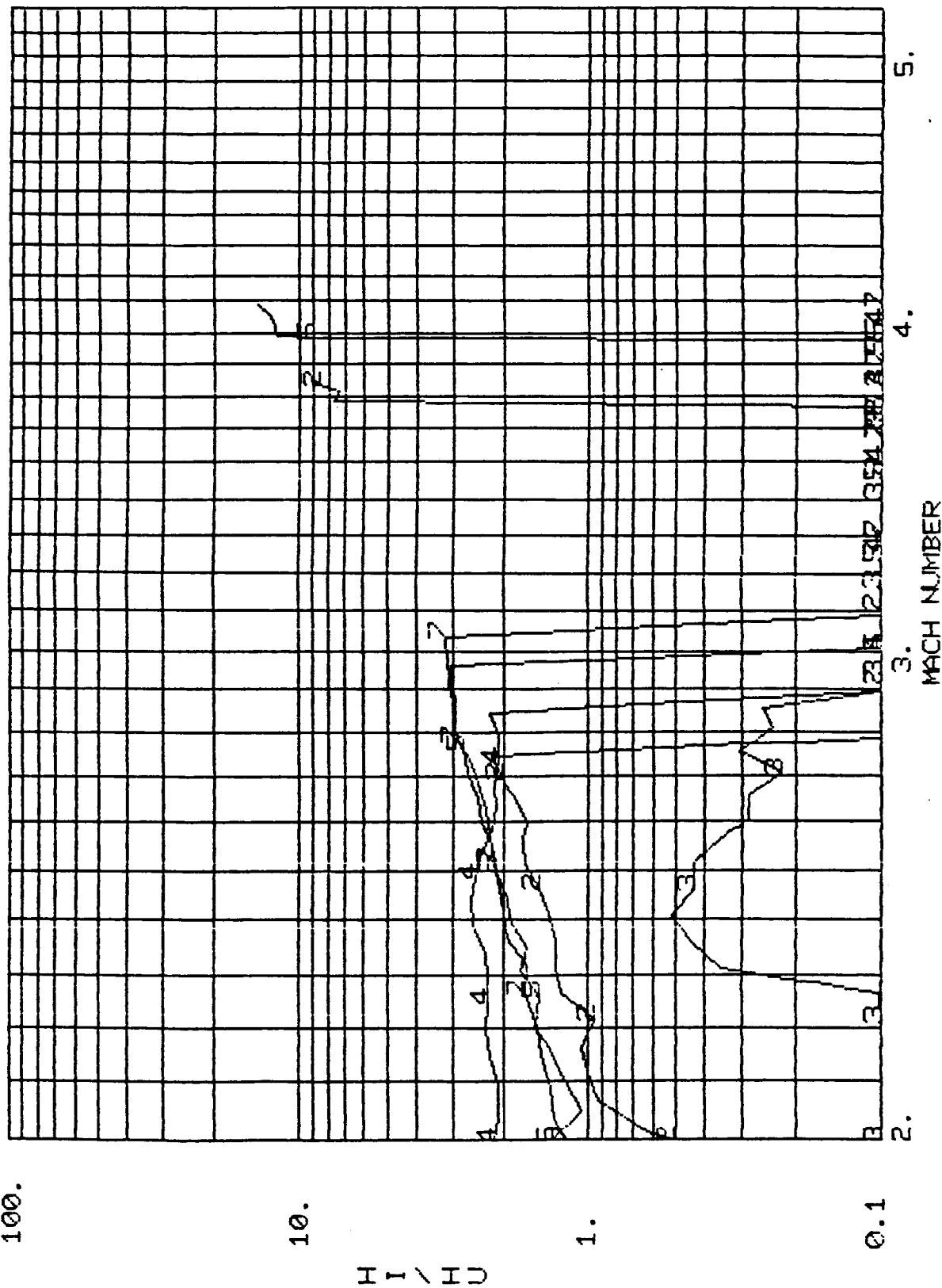
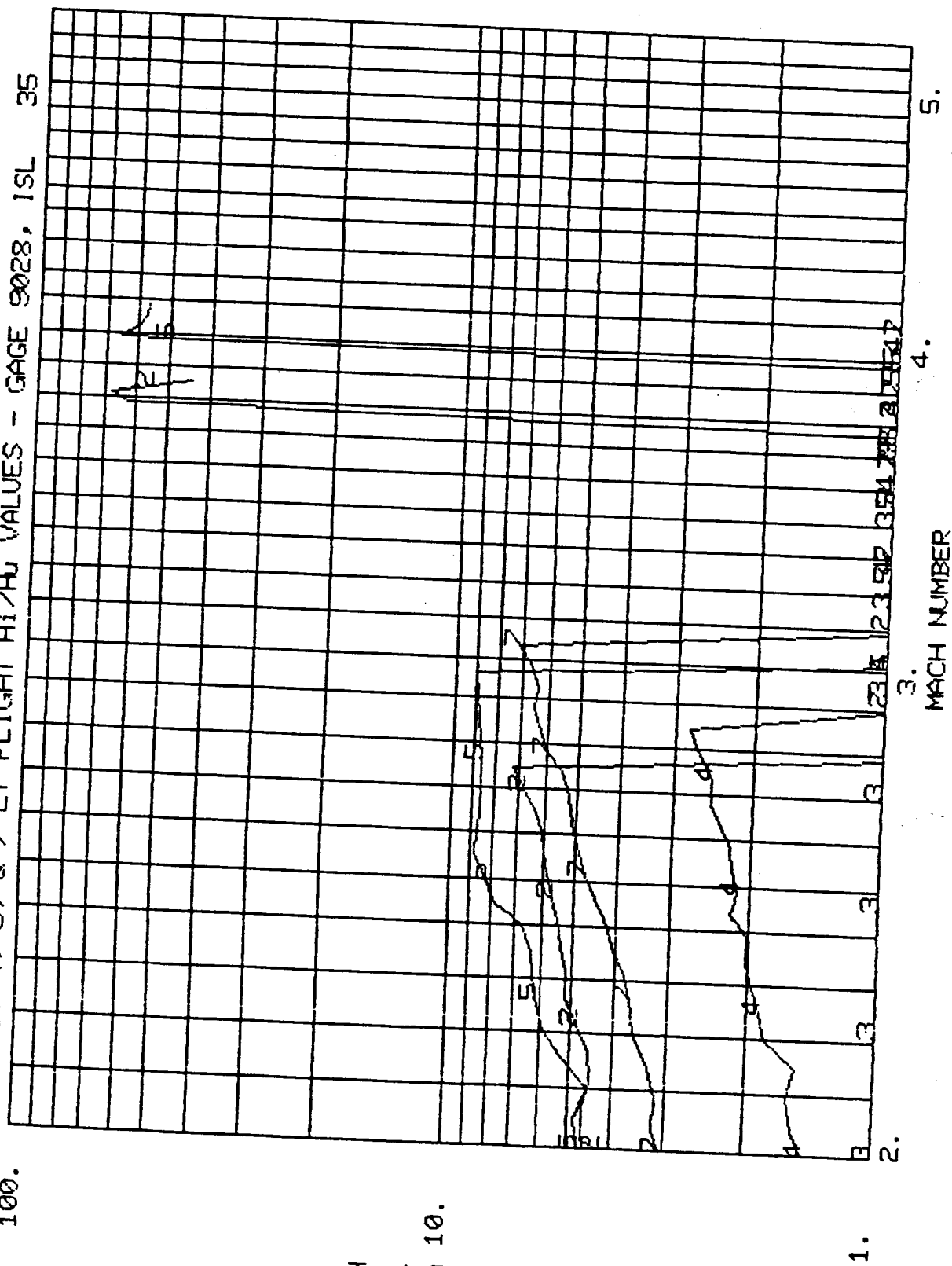


Fig. B.22 Flight-derived h_i/h_u vs. M_∞ for Gage 9027

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9028, ISL 35
100.

h_i / h_u
10.



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Fig. B.23 Flight-derived h_i/h_u vs. M_∞ for Gage 9028

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h_i/h_u

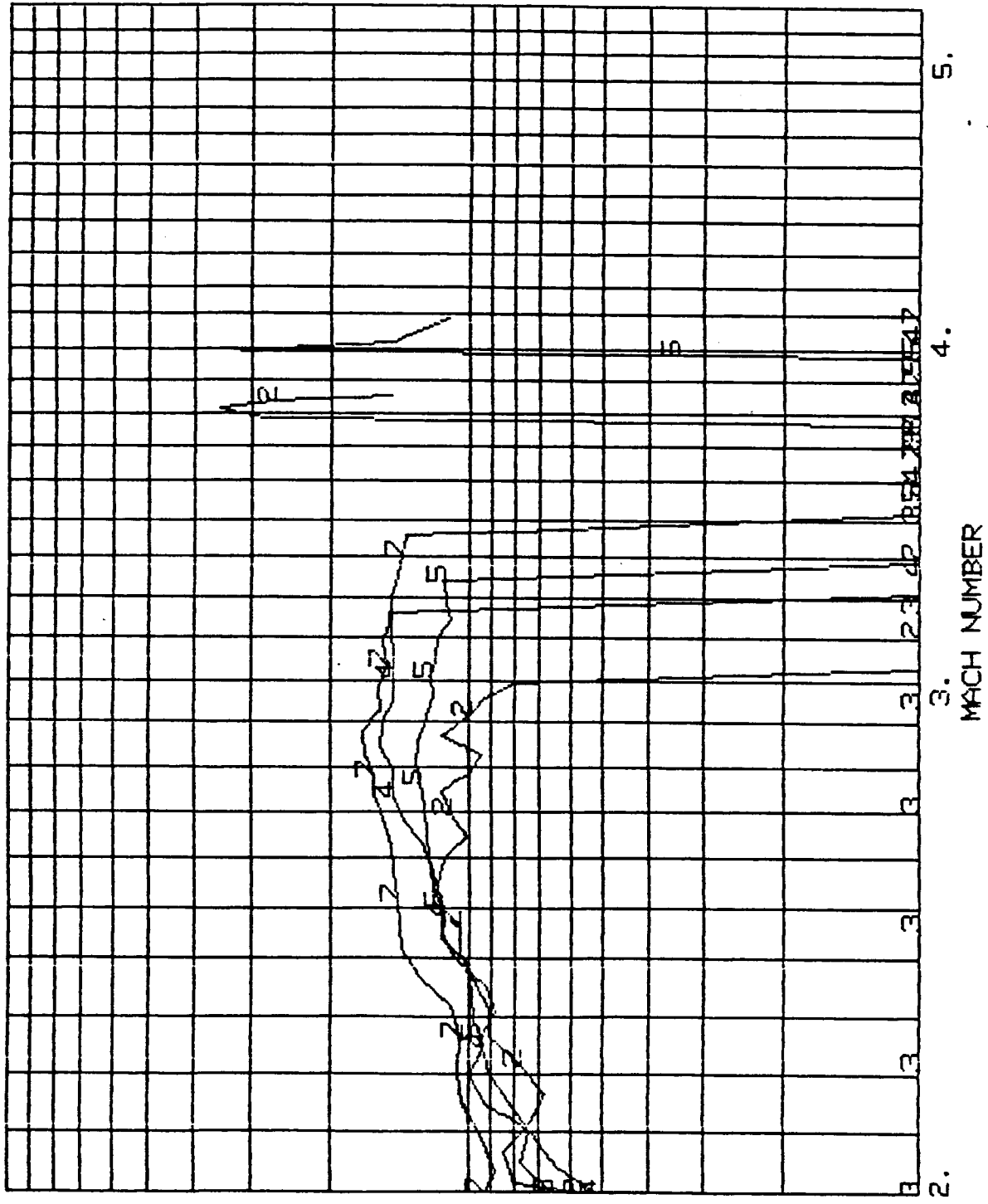


Fig. B.24 Flight-derived h_i/h_u vs. M_∞ for Gage 9029

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STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9030, ISL 34
100.

10.

h_i / h_u
1.

0.1

0.1E-01
2.

5.

4.

3.

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Fig. B.25 Flight-derived h_i/h_u vs. M_∞ for Gage 9030

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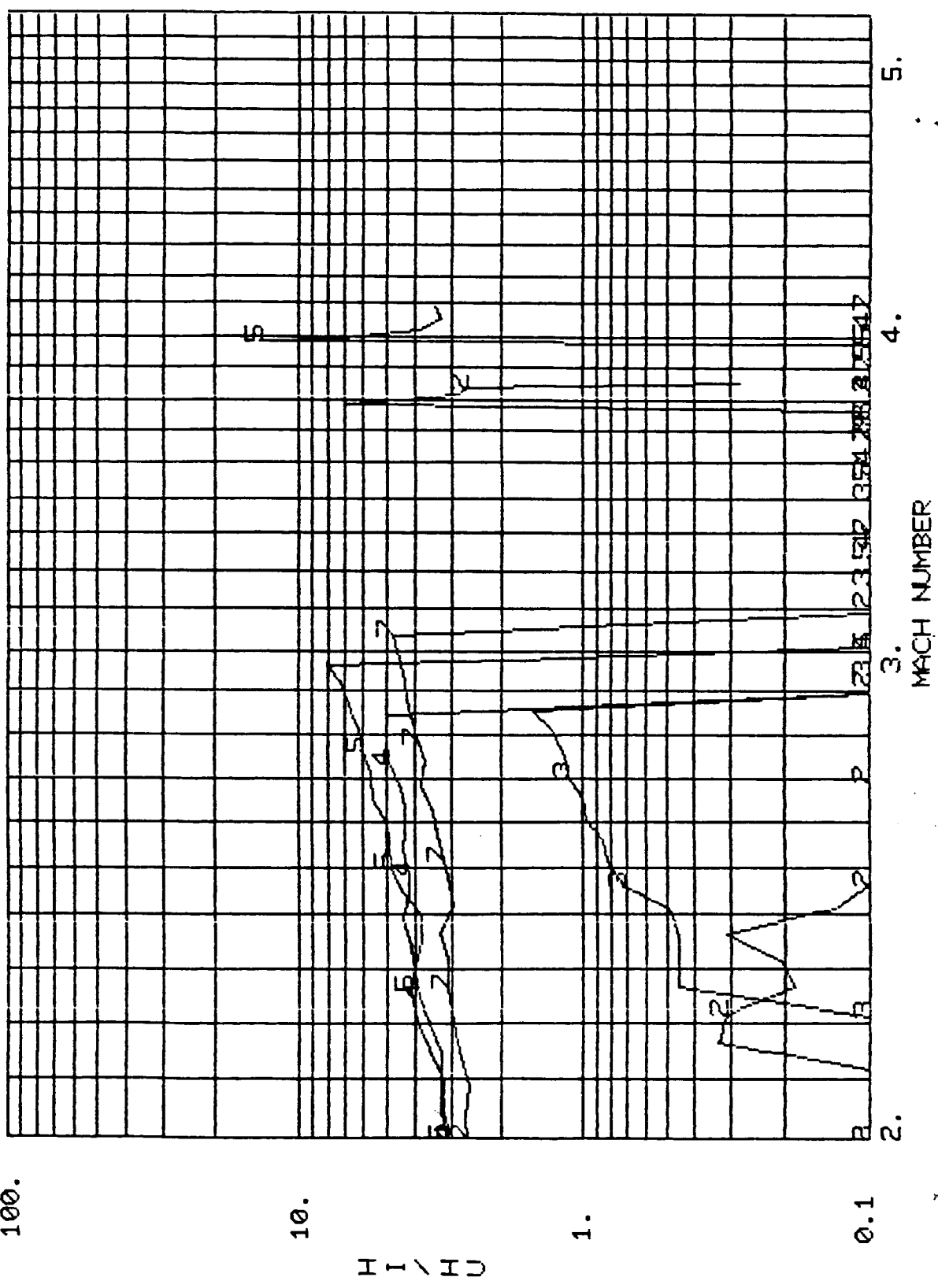


Fig. B.26 Flight-derived h_i/h_u vs. M_∞ for Gage 9031

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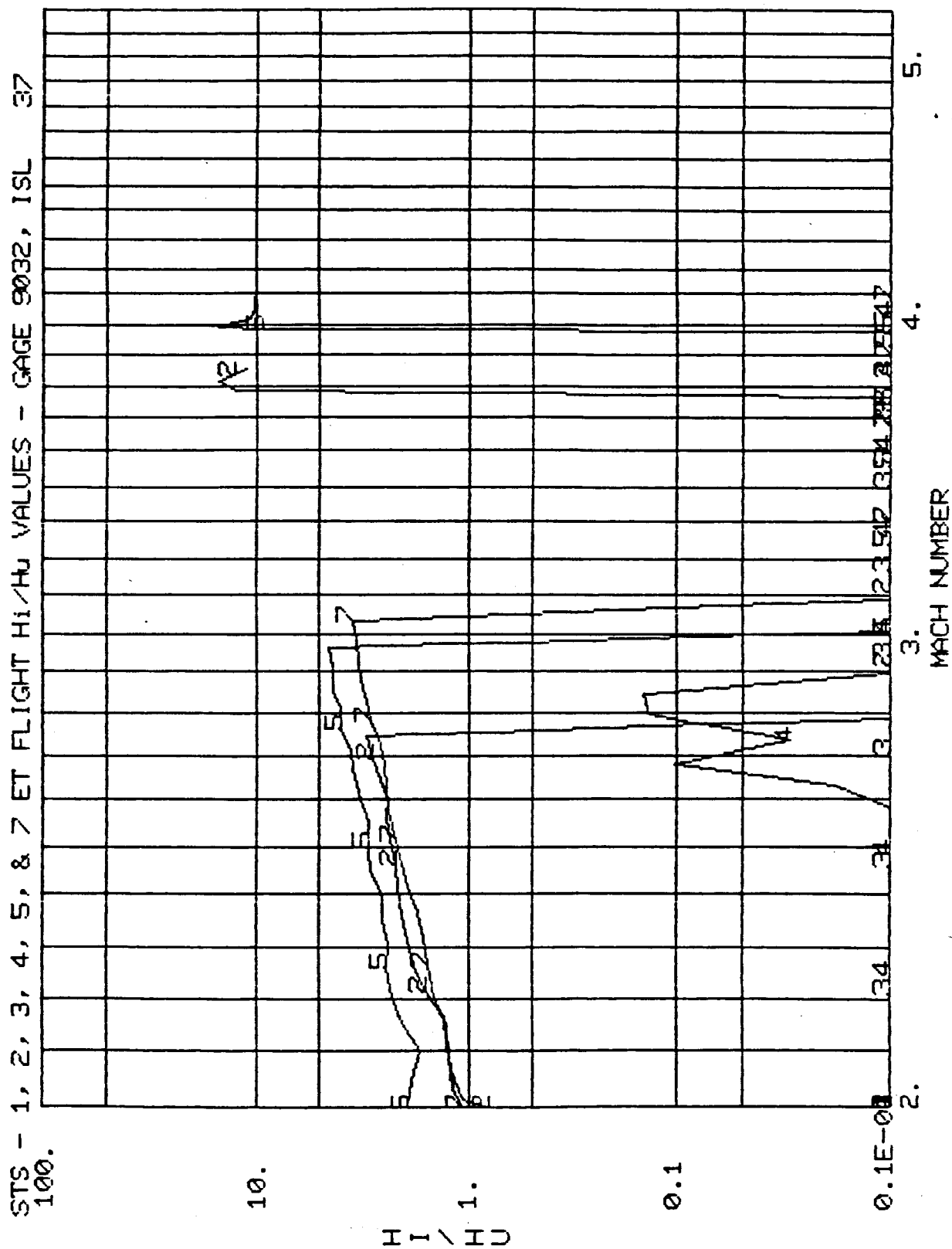


Fig. B.27 Flight-derived h_i/h_u vs. M_∞ for Gage 9032

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9038
100.

h_i/h_u 10.

1.

2.

3.

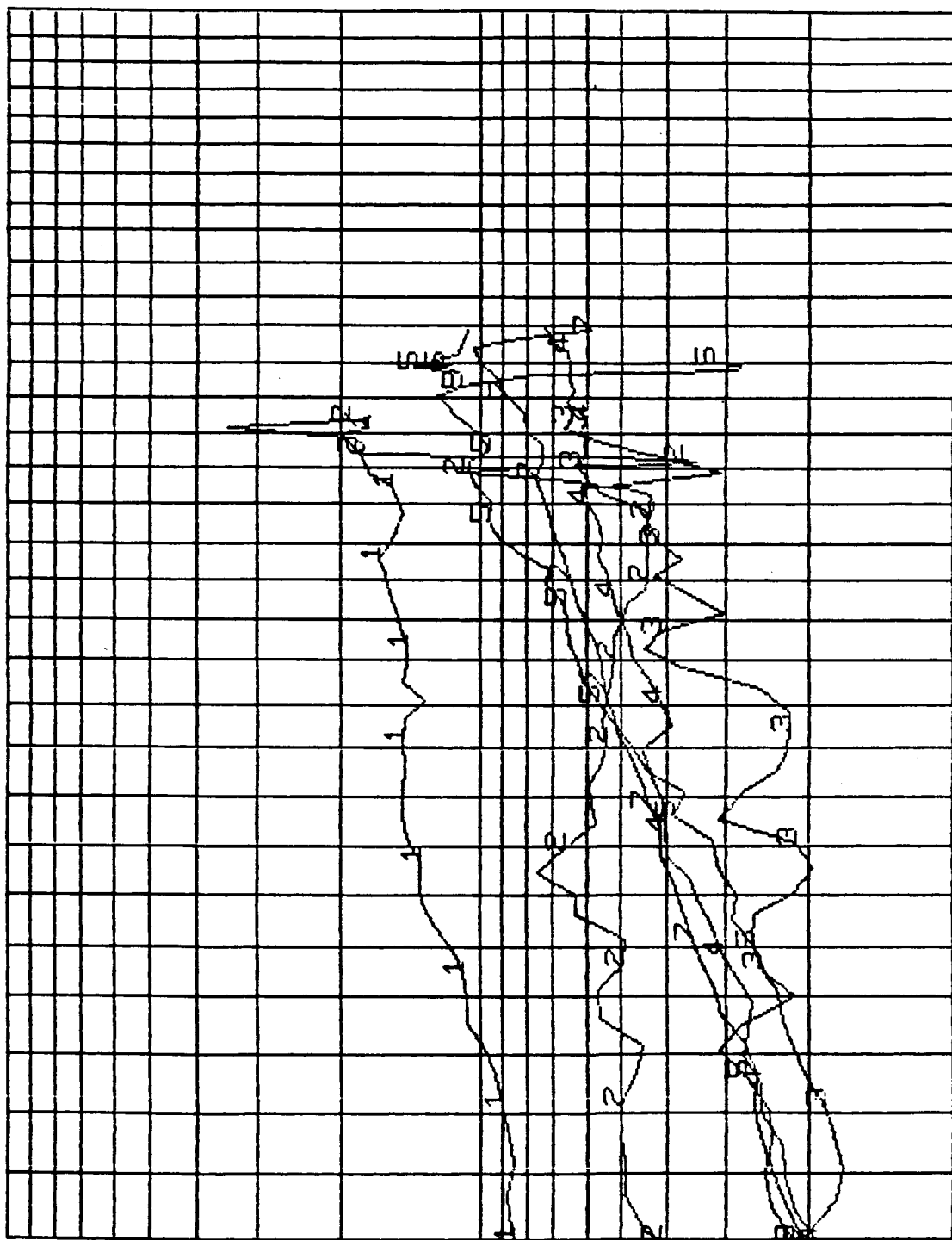
4.

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Fig. B.28 Flight-derived h_i/h_u vs. M_∞ for Gage 9038

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STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9039
100.

10.

h_i / h_u

1.

0.1

5.

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Fig. B.29 Flight-derived h_i/h_u vs. M_∞ for Gage 9039

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STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9040
10.

h_i/h_u

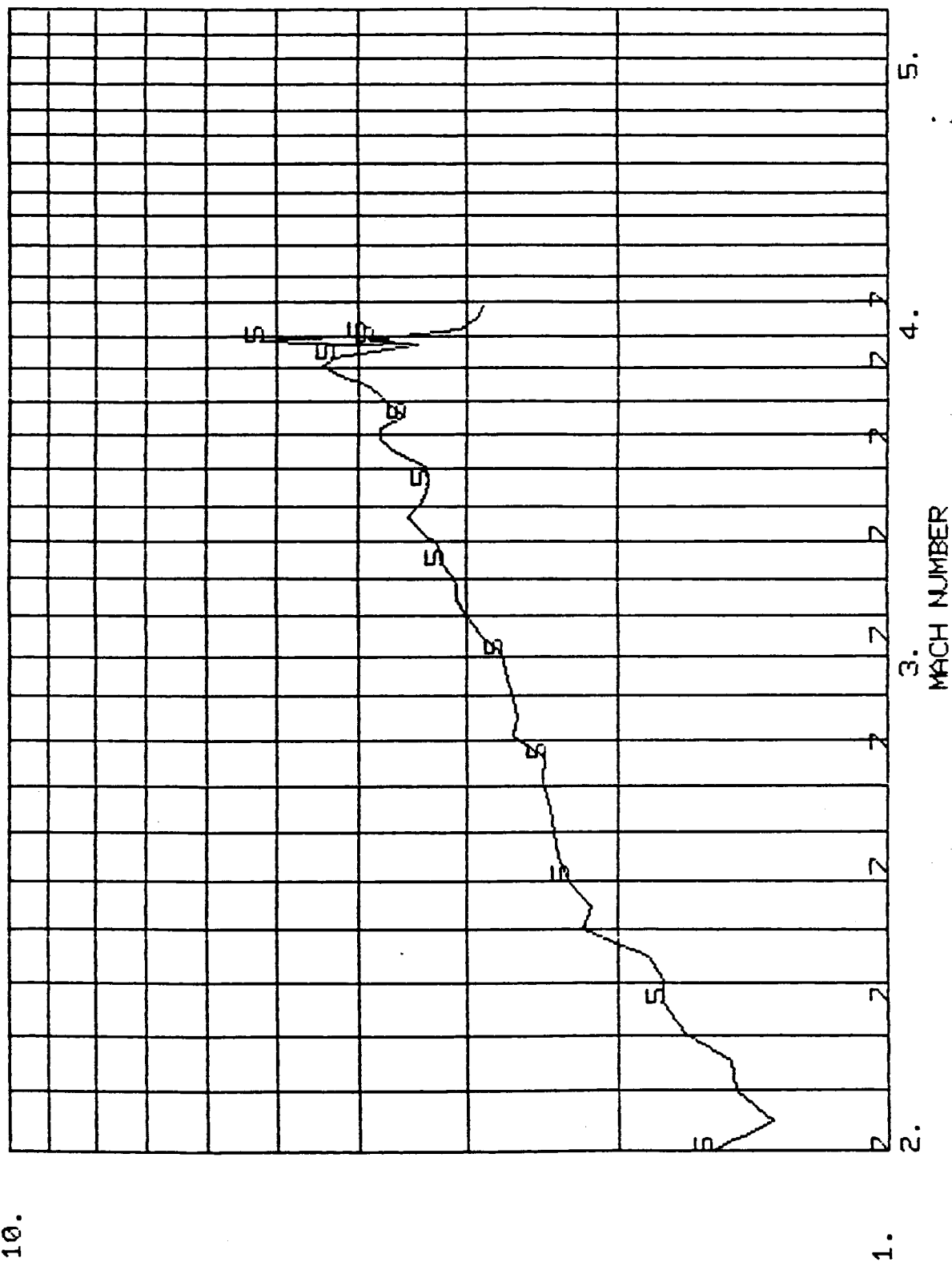


Fig. B.30 Flight-derived h_i/h_u vs. M_∞ for Gage 9040

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STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9041

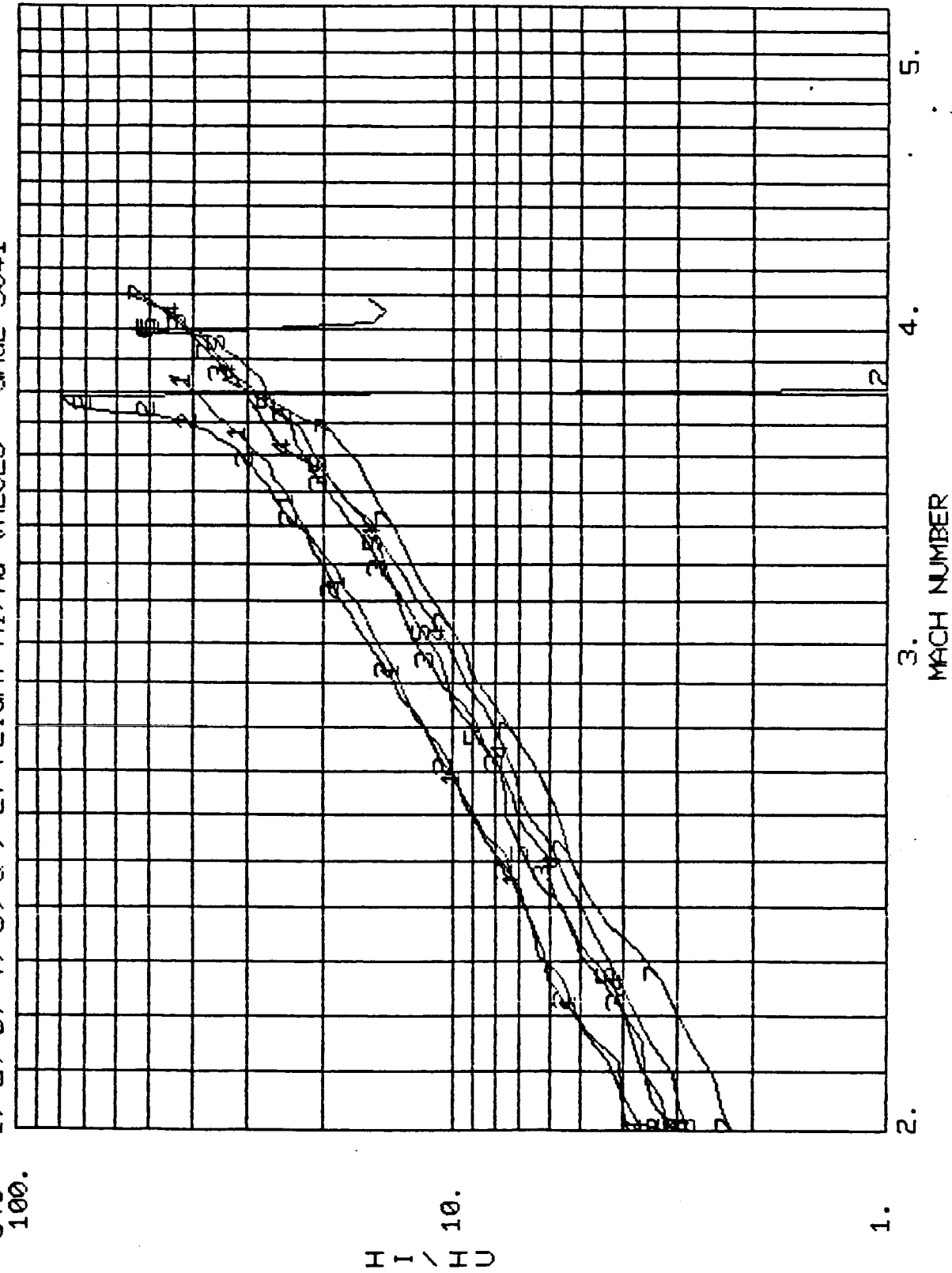


Fig. B.31 Flight-derived h_i/h_u vs. M_∞ for Gage 9041

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9042
100.

h_i/h_u 10.

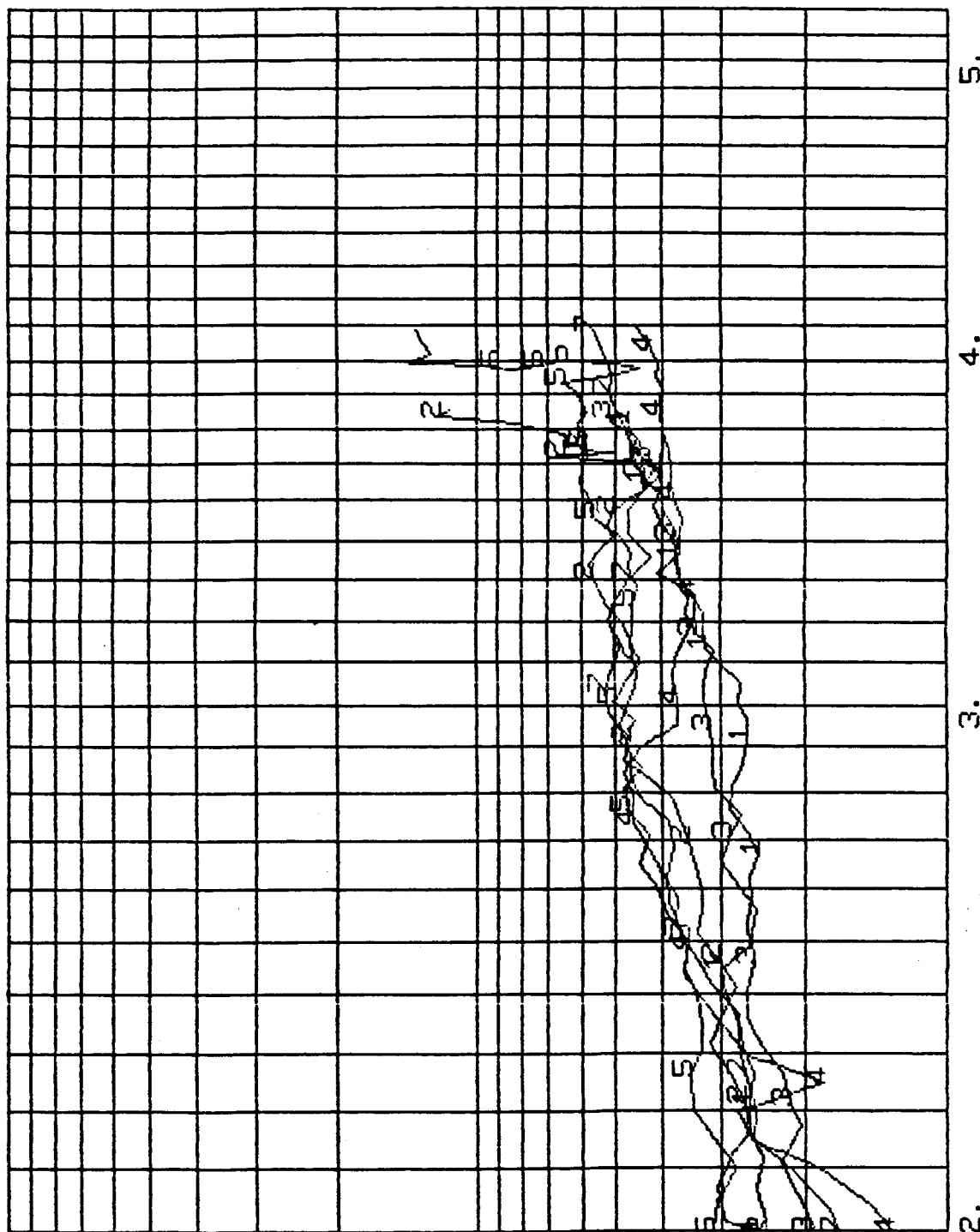


Fig. B.32 Flight-derived h_i/h_u vs. M_∞ for Gage 9042

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9043

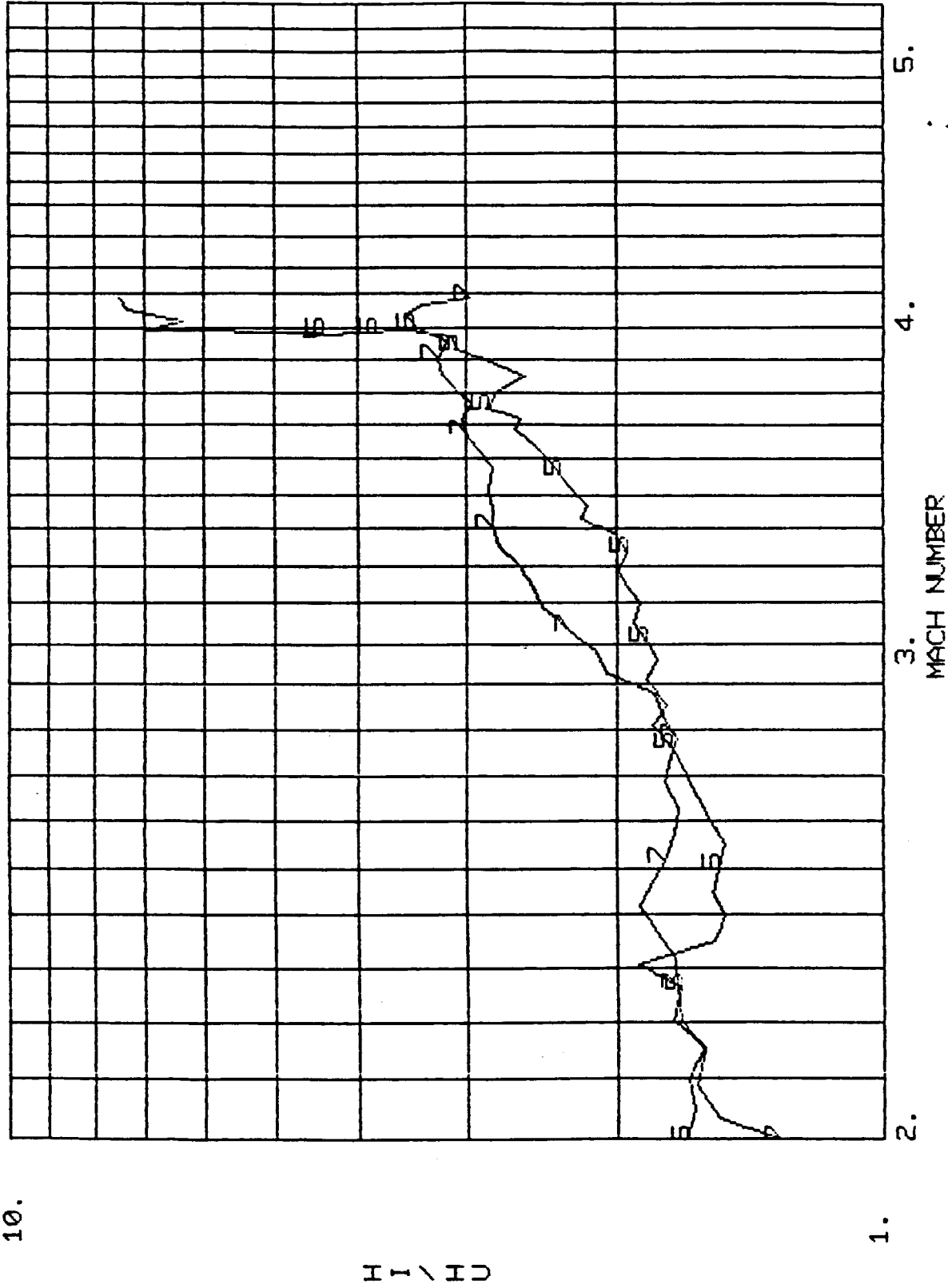


Fig. B.33 Flight-derived h_i/h_u vs. M_∞ for Gage 9043

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9045
100.

h_i/h_u 10.

1.

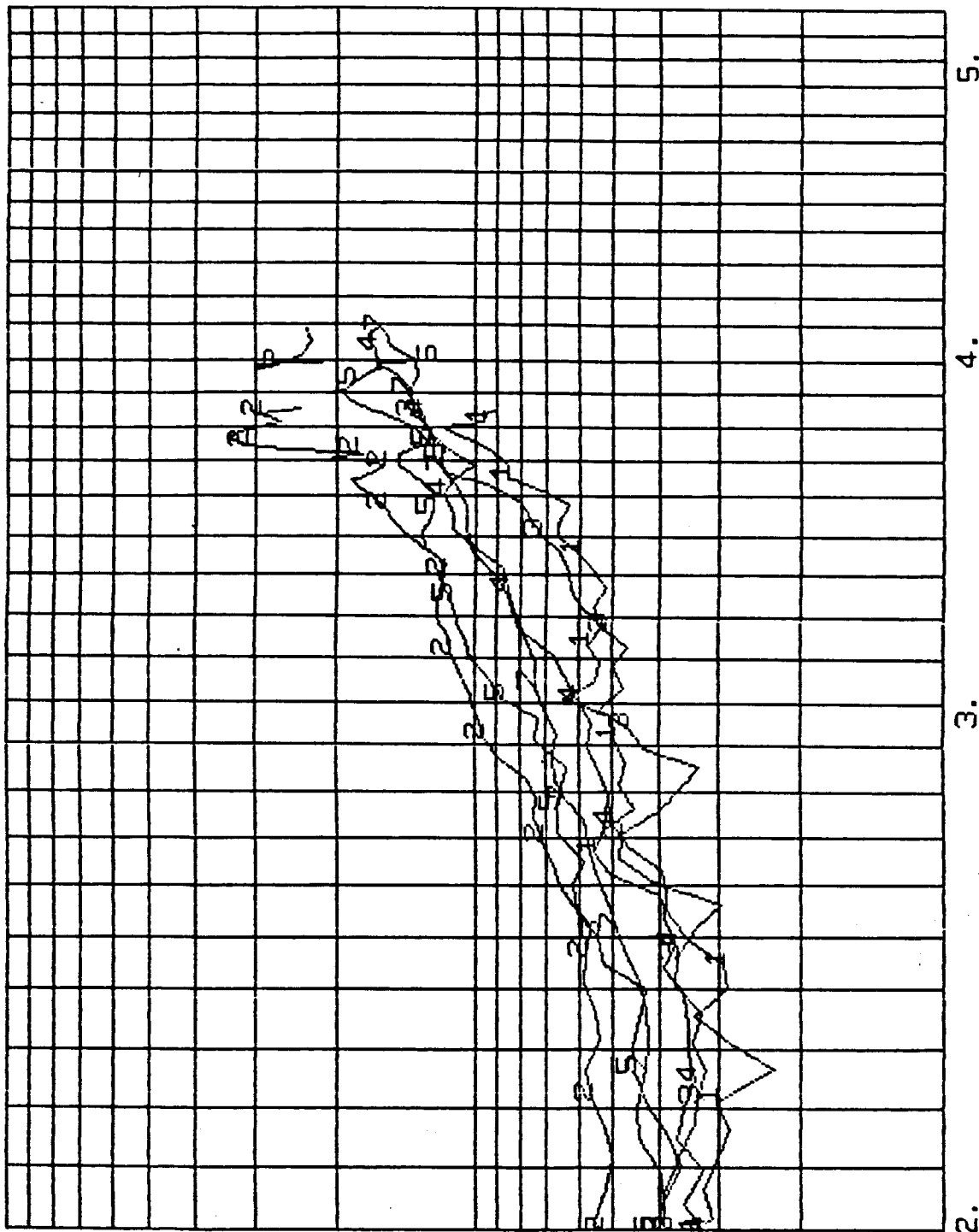


Fig. B.34 Flight-derived h_i/h_u vs. M_∞ for Gage 9045

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9046
100.

h_i / h_u

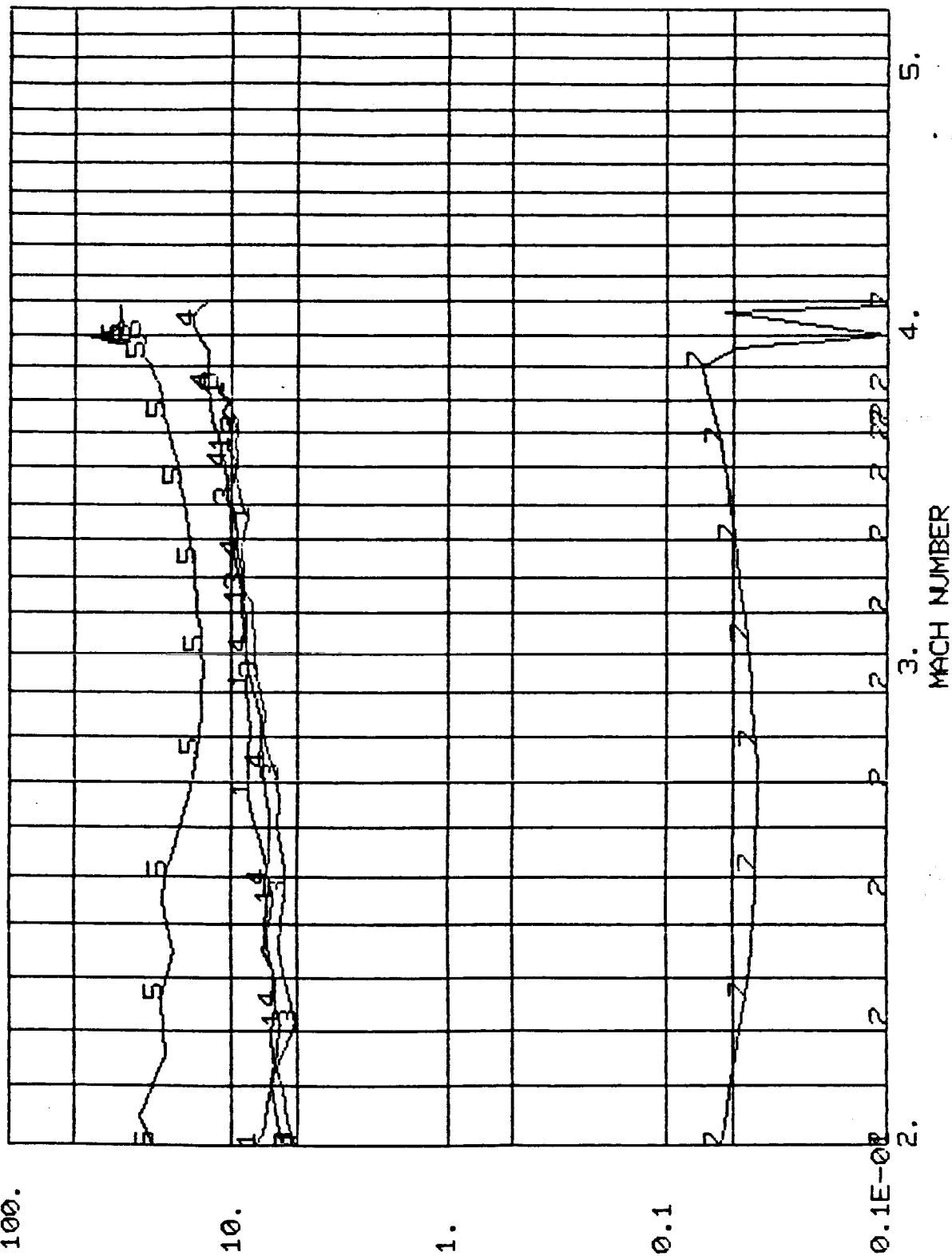


Fig. B.35 Flight-derived h_i/h_u vs. M_∞ for Gage 9046

STS - 1, 2, 3, 4, 5, & 7 ET FLIGHT h_i/h_u VALUES - GAGE 9047
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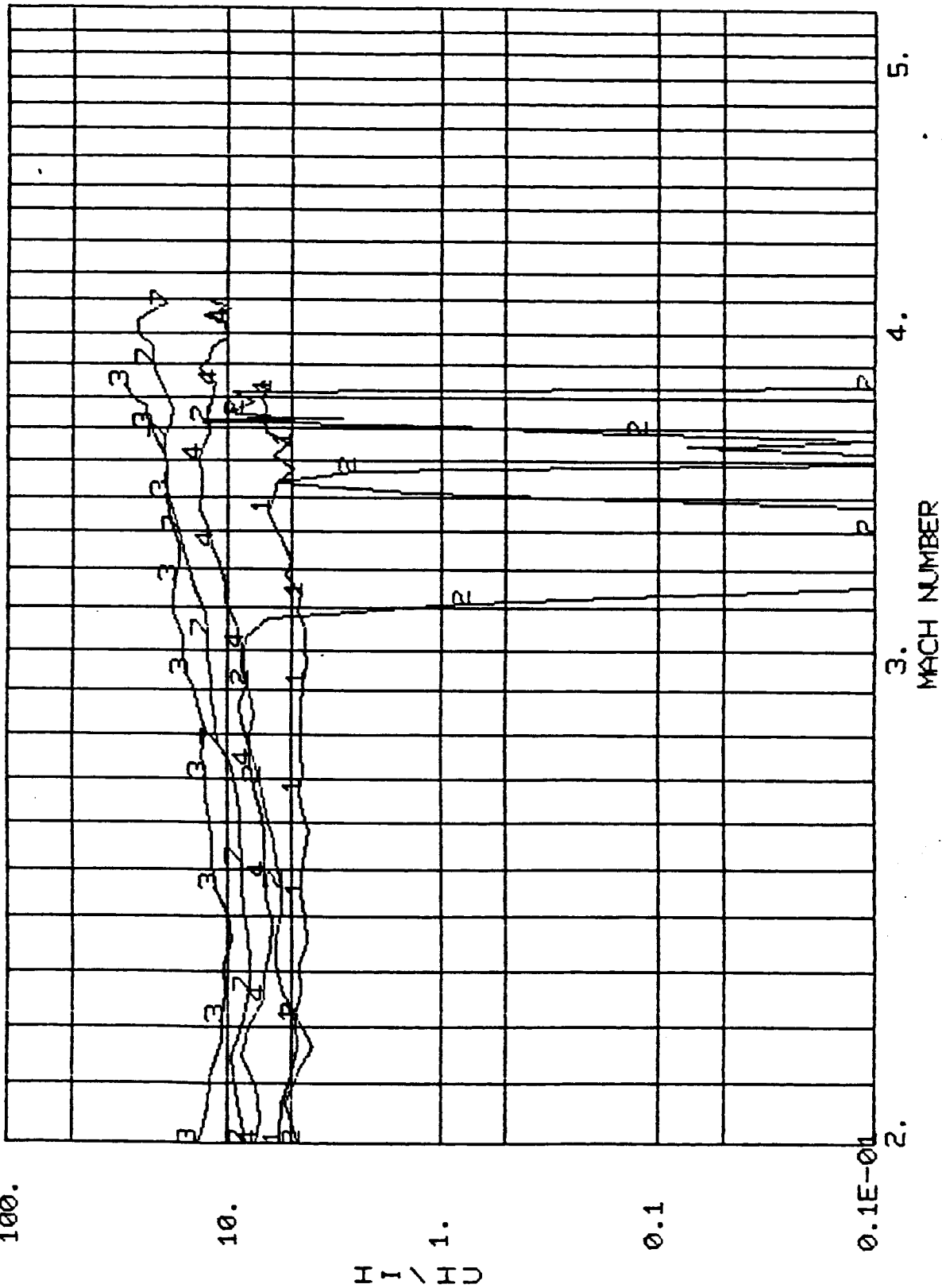


Fig. B.36 Flight-derived h_i/h_u vs. M_∞ for Gage 9047